

Biology 129 – Biology of Marine Mammals

Summer Session II

July 28 - August 29, 2014

Instructor: Jen Maresh (jmaresh@ucsc.edu) COH 152A

TA: Caitie Kroeger (ckroeger@ucsc.edu) COH Trailer 9 Rm 105

Lecture Time & Location: Tue/Thu 9:00 – 12:30 Center for Ocean Health / Long Marine Lab

Course Website: eCommons / BIOE129 Marine Mammals

Required Text: *Return to the Sea: The Life & Evolutionary Times of Marine Mammals* (2012), by A. Berta.

Enrollment: Students can enroll in the lecture course (129) without the lab (129L), but cannot enroll in the lab without concurrent (or previous) enrollment in the lecture course.

Evaluation Criteria

Paper	15%
Poster	15%
Midterm	35%
Final	35%

Welcome to Biology 129 – Biology of Marine Mammals!

Course Description: A survey of cetaceans, pinnipeds, sirenians, sea otters, and polar bears, including natural history, systematics, physiology, behavior, anatomy, and conservation.

Attendance: Attendance during lectures is not required, however it is HIGHLY ENCOURAGED that you attend every lecture. **Summer courses are hard!** The material is dense, the timing intensive, and even students with perfect attendance oftentimes find application of concepts challenging. **Material you miss in class will absolutely not be re-lectured to you during office hours.**

...However. You ARE required to take exams as they are administered in class (refer to schedule below). **There will be absolutely no make-up exams.** It is your responsibility to anticipate and clear up any time conflicts ahead of time. If you become ill or have an emergency, you are expected to email the instructor **before** the missed class, and promptly submit a doctor's note or you will not be excused. **If you miss an exam for any reason, you must get in touch with the instructor within 24 hours** of the missed class. Vacations are not valid excuses.

Classroom Accommodations: If you qualify for classroom accommodations because of a disability, please submit your Accommodation Authorization Letter from the Disability Resource Center (DRC) to me as soon as possible, preferably within the first week of the Summer Session. Contact DRC by phone at [831-459-2089](tel:831-459-2089) or by email at drc@ucsc.edu for more information.

Academic integrity: Cheating will not be tolerated. Cheating during tests will result in a zero and may result in a failing grade in the class.

****Note:** Course syllabus is subject to change at any time.

Diversity: Taxonomy and Evolution

Date	Topics	Readings
Tue, Jul 29	Course Introduction Diversity Locomotion	Ch. 1 (pp. 28); Ch. 2 (skim); Ch. 3 (51-60); Ch. 4 (79-106); Ch. 5 (127-132; 143-145; 147)

Adaptation: The Challenges of Aquatic Living

Thu, Jul 31	Diving Physiology Osmoregulation I <i>Guest Lecture: E. McHuron</i>	Ch. 3 (62-64; 68-72); Ch. 4 (107-109); Ch. 5 (132-134; 139; 144; 146; 148)
Tue, Aug 5	Osmoregulation II <i>Guest Lecture: S. Kienle</i>	Ch. 3 (61-62; 65); Ch. 4 (106; 110); Ch. 5 (146)
Thu, Aug 7	Thermoregulation Energetics <i>Guest Lecture: L. Schwarz</i>	Ch.3 (65-66; 72-78); Ch. 4 (110-116; 123-125); Ch. 5 (134-136)
Tue, Aug 12	**MIDTERM EXAM**	

Information Processing: Sensory Systems, Communication & Cognition

Thu, Aug 14	Reproduction Bioacoustics / Sensory Systems <i>Guest Lecture: K. Cunningham</i>	Ch. 4 (112-116)
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Behavior: Foraging, Mating & Sociality

Tue, Aug 19	Foraging Ecology Mating Systems **Term Papers Due** <i>Guest Lecture: M. Tarjan</i>	Ch. 3 (67; 72-78); Ch. 4 (105; 116-125); Ch. 5 (136-141; 146-149); Ch. 6 (151-158)
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Human Interactions: Conservation & Management

Thu, Aug 21	Group Living & Social Behavior Conservation & Management I <i>Guest Lecture: C. Casey</i>	Ch. 4 (122-123); Ch. 6 (159-174)
Tue, Aug 26	Conservation & Management II **Scientific Poster Session** <i>Guests: B. O'Brien, S. Spurlin, G. Thomae, V. Wade</i>	Ch. 6 (159-174)
Thu, Aug 28	**FINAL EXAM**	