
MAMMALOGY (EEB 3254/5254)—FALL 2011

INSTRUCTORS:

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TEXTBOOK: Feldhamer et al., *Mammalogy*, 3rd edition, McGraw-Hill, 2007

OTHER SUPPLIES: lab notebook for notes, sketches and place to put lab handouts
(you might find 3 colored pencils useful for lecture and lab)

FIELD TRIPS: to be determined (local small mammal trapping, Bronx Zoo, MCZ Harvard?)

LECTURE SCHEDULE:

Week	Date	Lecture topic	Textbook Chapter
I	30 Aug 1 Sept	Introduction/ What is a mammal? Crown-group Mammalia—characteristics	4 4, 6 (p 95-106)
II	6 Sept 8 Sept	Laura Cisneros—biology of bats Tour of EEB Biological Collections Facility (Sue Hochgraf, Vert. Coll. Manager)	13 3
III	13 Sept 15 Sept	Evolution of synapsids—“pelycosaurs” and therapsids Evolution of synapsids—cynodonts	4
IV	20 Sept 22 Sept	Tooth form, function and evolution Evolution of mammalian traits 1	4 4, 9
V	27 Sept 29 Sept	Evolution of mammalian traits 2 Evolution of the jaws and middle ear	4, 9 4, 6 (p 104-106)
VI	4 Oct 6 Oct	LECTURE EXAM 1 (<i>100 pts. on lectures from 30 Aug to 29 Sept</i>) The Orders of living mammals—diversity 1	11-20
VII	11 Oct 13 Oct	The Orders of living mammals—diversity 2 The Orders of living mammals—diversity 3	11-20 11-20
VIII	18 Oct 20 Oct	Phylogeny and taxonomy of Mammalia—a moving target Case study: the origin, evolution and phylogeny of whales (Cetacea)	11-20 download
IX	25 Oct 27 Oct	Feeding Feeding and foraging strategies	7 7

LECTURE SCHEDULE CONTINUED:

Week	Date	Lecture topic	Textbook Chapter
X	1 Nov 3 Nov	Biomechanics of locomotion LECTURE EXAM 2 (<i>100 pts. on lectures from 6 Oct to 1 Nov</i>)	6
XI	8 Nov 10 Nov	Reproduction Sensory biology and communication 1	10, 22 21
XII	15 Nov 17 Nov	Sensory biology and communication 2 Thermoregulation, adaptations to heat and cold	21 9
XIII	22 Nov 24 Nov	THANKSGIVING BREAK THANKSGIVING BREAK	
XIV	29 Nov 1 Dec	Thermoregulation, adaptations to heat and cold Sociality and behavior	9 23
XV	6 Dec 8 Dec	Sociality and behavior Population biology	23 25, 26
XVI	13 Dec	LECTURE EXAM 3/FINAL EXAM Tuesday (9:30-11:30 am) (<i>100 pts. on lectures from 8 Nov to 8 Dec, + 50 pts. cumulative</i>)	

GRADING:

Lecture Exam 1	100
Lecture Exam 2	100
Lecture Exam 3 + Final (cumulative) Exam	150
Lab practical 1	100
Lab practical 2	100
Lab Quizzes (6 @ 10 pts. each, lowest score dropped)	50
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	600 (total pts)

LABORATORY SCHEDULE:

Week	Date	Quiz?	Lab Topic
I	1 Sept	x	NO LAB
II	8 Sept	x	Preparing a mammal study skin; Mammalian skeletal anatomy
III	15 Sept	x	Mammalian skeletal anatomy
IV	22 Sept	x	Monotremata, Marsupialia
V	29 Sept	(Q)	Erinaceomorpha, Soricomorpha, Pholidota, Cingulata and Pilosa
VI	6 Oct	(Q)	field trip?
VII	13 Oct	x	LAB PRACTICAL I
VIII	20 Oct	x	Rodentia I
IX	27 Oct	(Q)	Rodentia II
X	3 Nov	(Q)	Carnivora
XI	10 Nov	x	field trip?
XII	17 Nov	(Q)	Lagomorpha, Cetacea, Artiodactyla, Perissodactyla, Sirenia, Hyracoidea, Proboscidea, Tubulidentata I
XIII	24 Nov	x	THANKSGIVING
XIV	1 Dec	(Q)	Lagomorpha, Cetacea, Artiodactyla, Perissodactyla, Sirenia, Hyracoidea, Proboscidea, Tubulidentata II
XV	7 Dec	x	LAB PRACTICAL II

(Q) = short, 10 pt. quiz at beginning of lab period on material shown in *previous* lab (the first quiz covers the first 3 lab periods)