

BIOL 5980 - Mammalogy, Fall, 2019

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Lecture: 12 MWF 1024 BSC
Lab: 9:30-12:20 or 2-4:50 R 1088 BSC
Office Hours: 10-11 MW, 2-3 M;
other times by appt.

Lecture Text: Feldhamer, G.A., et al. 2015. Mammalogy: adaptation, diversity, and ecology, 4th Ed. Johns Hopkins Univ. Press, Baltimore. 747 pp.

Useful links: <https://mammaldiversity.org>
<https://www.departments.bucknell.edu/biology/resources/msw3/>
<https://animaldiversity.org/accounts/Mammalia/>

Tentative Lecture Schedule

| Week | Lecture Topics | Chapt. In Text |
|---------|--|-----------------------|
| 1 | Intro., gen. mammal characteristics; Modern taxonomy | Skim 1-2, 7-8; 3-4 |
| 1,2 | Locomotion; Skull, Skeleton, Teeth | 7; 5(part) |
| 3 | Integument; Feeding; Thermo-/Osmo-regulation; Nervous/Sensory Systems; Reproduction | 7(part); 8-11 |
| 4* | Paleontology and mammal evolution | 5 |
| 5 | Biogeography; Modern mammal diversity | 6; "Part 3" |
| 5 | Monotremes and marsupials | 12 |
| 6* | "Insectivore" orders | 13 |
| 7 | Chiroptera | 14 |
| 8 | Primates | 15 |
| 9 | Carnivora | 17 |
| 10* | Cetacea | 21 |
| 10,11 | Xenarthra, et al.; "Subungulates" | 16,19 |
| 11,12 | Perissodactyla | 20 |
| 12 | Artiodactyla | 20 |
| 13,14 | Rodentia | 18 |
| 15 | Lagomorpha | 18 |
| FINAL * | Fri., Dec. 13, 10:15 am - 12:15 pm | |

*indicates approximate times of 4 60-100 pt. exams; TOTAL 360 points. Max.
Course Point Total (+ p. 2) 575 pts. Lowest A/B/C/D= 90/80/70/60% or lower.

Laboratory in Mammalogy

Manual: Martin, R.E., R.H. Pine and A.F. DeBlase. 2012. A manual of mammalogy with keys to families of the world, 3rd ed. McGraw Hill, Boston. 352 pp.

| <u>Tentative Lab Schedule</u> | <u>Date</u> | <u>Chapts.</u> |
|---|-------------|----------------|
| 1. Skull, hair, external characters | Aug. 22 | 2,4,5 |
| 2. Teeth, appendicular skeleton | Aug. 29 | 3,6,7 |
| ***** 1st Lab Practical Exam ***** | | |
| | Sep. 5 | |
| 3. Use of Keys; Field Collection | Sep. 5 | 8,9 |
| 4. Monotremes, Marsupials, "Insectivores" | Sep. 12 | 10-12 |
| 5. Chiropterans & Primates | Sep. 19 | 14-16 |
| 6. TBD | Sep. 26 | |
| ***** 2nd Lab Practical Exam ***** | | |
| | Oct. 3 | |
| 7. Carnivores I | Oct. 3 | 19 |
| 8. Carnivores II | Oct. 10 | 19 |
| 9. Perissodactyls; Artiodactyls | Oct. 17 | 17,18,20 |
| Xenarthrans, Cetaceans, Subungulates | | 21,24-27 |
| ***** 3rd Lab Practical Exam ***** | | |
| | Oct. 24 | |
| 10. Special Project Work Day | Oct. 24 | |
| 11. Rodents I | Oct. 31 | 23 |
| 11. Rodents II | Nov. 7 | " |
| 12. Rodents III, Lagomorphs | Nov. 14 | " +22 |
| 13. Rodents + Lagomorphs review | Nov. 21 | " |
| 14. NO LABS NO LABS | Nov. 28 | |
| ***** 4th Lab Practical Exam ***** | | |
| | Dec. 5 | |

LAB GRADING: 1) four lab quizzes stressing identification, 35-40 pts. each, 145 pts; 2) special project, 50 pts; 3) small museum specimen preparation, 10 pts.; 4) attendance, participation, attitude, 10 points. TOTAL 215 pts.

Attendance at all laboratories is mandatory. More than one lab absence WILL result in points deducted from total; arriving late or leaving lab early counts as an absence!

The student is responsible for all material from lecture and assigned readings unless otherwise instructed. You are responsible for all material and information given or assigned during class time *regardless* of any reason for missing class.

STUDENTS WITH DISABILITIES: Students requiring classroom or testing accommodations because of documented disabilities should discuss their needs with the instructor at the beginning of the quarter. To register with the VSU Special Services Program, contact their office (245-2498).