

Syllabus: Mammalogy (EBIO 4760/5760)

Description: This is a lecture and lab course with the goal of providing a foundational understanding of the study of mammals. The lecture and lab will cover the origin, evolution, adaptation, biogeography, physiology, ecology, behavior, and taxonomy of mammals of the world, NA, and Colorado. The lab uses mammal skins, bones, and/or tissues. The prerequisites include the General Biology Lecture Courses (EBIO 1210 & 1220). This is an upper division course—we will delve much deeper into the subject matter and require a larger time-commitment to fully comprehend the material. For that reason, sophomore students need to see me about participation in this course.

Instructor: Dr. Christy M. McCain
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Teaching Assistant: Nathan Kleist
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Lecture: MWF 9:00-9:50am

Lecture Location: Museum Collections/Bruce Curtis Bldg E186

Lab: Thursday 9-11:50am or 2-4:50pm

Lab Location: Museum Collections/Bruce Curtis Bldg E280

Required Texts: (1) Mammalogy: adaptation, diversity, and ecology, 3rd edition. Feldhamer, G. A., L. C. Drickamer, S. H. Vessey, J. F. Merritt, and C. Krajewski. 2007. John Hopkins Press. [Cheap used copies available at Amazon.com; also on reserve at Norlin Library]
(2) Mammalogy Lab Manual—available for free download by lab on CULearn.
(3) Peterson Field Guide to Mammals of North America, 4th edition. Reid, F. 2006. Houghton Mifflin Harcourt Press.

Other good mammalogy sources, but not required:

Animal Diversity Web. (<http://animaldiversity.ummz.umich.edu/site/accounts/information/Mammalia.html>).

Armstrong, D. M., J. P. Fitzgerald, and C. A. Meaney. 2011. Mammals of Colorado. Denver Museum of Nature and Science, and University of Colorado Press.

Borrow, D. 1960. Dictionary of Word Roots. Mayfield Publishing Co.

Jones, J. K., Jr., and R. W. Manning. 1992. Illustrated key to skulls of genera of North American land mammals. Texas Tech University Press, Lubbock.

Lawlor, T. E. 1979. Handbook to the orders and families of living mammals. Mad River Press, Arcata.

Vaughn, T. A., J. M. Ryan, and N. J. Czaplewski. 2009. Mammalogy, 5th edition. Jones and Bartlett Publishers.

Course Schedule: A preliminary schedule of lectures and labs is attached. Lecture and lab topics and dates are subject to change. Reading assignments for each week of lecture and lab are specified.

Labs: It should be obvious that attendance at the lab sections is essential. You can probably find a way to work around missing an occasional lecture, but labs cannot be made up once the week is over and the specimens have been put away. If you must miss your assigned lab during some week, attend the other lab section. Let the lab instructor know you're there. Because labs are so important in this class, we do keep track of attendance. Five points will be subtracted from your final grade for every lab missed.

Exams: There will be 2 lecture exams, a final exam, and 3 lab exams; none are cumulative, but each does build upon the previous sections. Each exam is worth 100 pts for undergraduates. Questions will be fill-in the blank, short answers, and paragraph form. Each exam will include additional, advanced questions for graduate-level students only (EBIO 5760) worth an additional 25 pts. There will be NO make-up exams given during the semester or for the final, so plan on attending during scheduled exam times.

*****The final exam is scheduled on TBA*****

Homework: There will 4 homework assignments using the *Animal Diversity Web's* data querying tool *Quaardvark*. These will involve analysis of mammalogical data, written summaries of data, analyses, and results. Details will be given in class.

Grading: As a rule-of-thumb, grades will be awarded as follows: 90-100% = A; 80-89% = B; 70-79% = C; 60-69% = D; below 60% = F. Borderline cases = "+" & "-".

<u>Activity:</u>	<u>Undergrad Level (4760):</u>	<u>Graduate Level (5760):</u>
Lecture Exams (100 pts each)	200 points	250 points
Lab Exams (100 pts each)	300 points	375 points
Final Exam	100 points	125 points
Homework Projects (25 pts each)	100 points	100 points
Graduate Project:	N / A	100 points
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Total	700 points	950 points

Graduate Project (EBIO 5760 only): TBA

Administrative Reminders:

1. If you qualify for accommodations because of a disability, please submit to Dr. McCain a letter from Disability Services in a timely manner (by end of second week of classes) so that your needs may be addressed. Disability Services determines accommodations based on documented disabilities. Contact: 303-492-8671, Willard 322, and <http://www.Colorado.EDU/disabilityservices>.
2. Campus policy regarding religious observances requires that faculty make every effort to deal reasonably and fairly with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. In this class, there will be one opportunity for make-up exams: lecture exams outside of class within two days of the exam, and lab exams either Tuesday or Thursday of exam week. For additional absences please talk to me in advance, so we can work out additional accommodations. See full details at http://www.colorado.edu/policies/fac_relig.html

3. Students and faculty each have responsibility for maintaining an appropriate learning environment. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender, gender variance, and nationalities. Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. See policies at <http://www.colorado.edu/policies/classbehavior.html> and at http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code

4. The University of Colorado at Boulder policy on Discrimination and Harassment, the University of Colorado policy on Sexual Harassment and the University of Colorado policy on Amorous Relationships apply to all students, staff and faculty. Any student, staff or faculty member who believes s/he has been the subject of discrimination or harassment based upon race, color, national origin, sex, age, disability, religion, sexual orientation, or veteran status should contact the Office of Discrimination and Harassment (ODH) at 303-492-2127 or the Office of Judicial Affairs at 303-492-5550. Information about the ODH, the above referenced policies and the campus resources available to assist individuals regarding discrimination or harassment can be obtained at <http://www.colorado.edu/odh>

5. All students of the University of Colorado at Boulder are responsible for knowing and adhering to the academic integrity policy of this institution. Violations of this policy may include: cheating, plagiarism, aid of academic dishonesty, fabrication, lying, bribery, and threatening behavior. All incidents of academic misconduct shall be reported to the Honor Code Council (honor@colorado.edu; 303-725-2273). Students who are found to be in violation of the academic integrity policy will be subject to both academic sanctions from the faculty member and non-academic sanctions (including but not limited to university probation, suspension, or expulsion). Other information on the Honor Code can be found at <http://www.colorado.edu/policies/honor.html> and at <http://www.colorado.edu/academics/honorcode/>