

University of Montana

ScholarWorks at University of Montana

University of Montana Course Syllabi

Open Educational Resources (OER)

Fall 9-1-2020

BIOO 475.00: Mammalogy

Jedediah Brodie

University of Montana, Missoula, jedediah.brodie@umontana.edu

Follow this and additional works at: <https://scholarworks.umt.edu/syllabi>

Let us know how access to this document benefits you.

Recommended Citation

Brodie, Jedediah, "BIOO 475.00: Mammalogy" (2020). *University of Montana Course Syllabi*. 11211.
<https://scholarworks.umt.edu/syllabi/11211>

This Syllabus is brought to you for free and open access by the Open Educational Resources (OER) at ScholarWorks at University of Montana. It has been accepted for inclusion in University of Montana Course Syllabi by an authorized administrator of ScholarWorks at University of Montana. For more information, please contact scholarworks@mso.umt.edu.

BIOO 475 – MAMMALOGY – Fall Semester 2020

Instructor information

Instructor: Dr. Jedediah Brodie

Email: jedediah.brodie@mso.umt.edu

Office hours: Via zoom, by appointment

Teaching assistants

Jennifer Feltner: jennifer.feltner@umontana.edu

Peter Williams: peter2.williams@umontana.edu

Course description

This course covers the evolution, biogeography, systematics/phylogenetics, anatomy, physiology, ecology, and natural history of mammals. We will cover all of the extant (and many of the extinct) mammal lineages, exploring the evolutionary and ecological forces that led to their current distributions and diversity. Concurrent enrollment in the lab is required – the lab will focus on identification, morphology, and anatomy.

Required readings

1. Kerry Foresman, *Revised Key to the Mammals of Montana* (2012)
2. Scientific journal articles as assigned during lecture

Learning outcomes

1. Describe the evolutionary and biogeographic history of the major extant and extinct mammal lineages
2. Compare the ecological and evolutionary factors that shaped (and continue to shape) the diversification and spread of different mammal groups
3. Summarize the key morphological, physiological, and ecological characteristics of the major mammal lineages
4. Identify mammals based on internal and external morphology
5. Interpret evolutionary relationships based on phylogenetic cladograms

Student Conduct Code

Please read and familiarize yourself with the *Student Conduct Code*

(<http://www.umt.edu/student-affairs/community-standards/default.php>). In particular, note that we have *zero tolerance for plagiarism*. Your field journals and term papers may be run through DupliChecker anti-plagiarism software. As a rule-of-thumb, avoid using more than 3 words in a row that are the same as another source.

Let me say it again: *zero tolerance for plagiarism*.

Missed exams

Exams will be taken at-home (or wherever you want to take them, but not in the classroom) but will have strict time limits. I *do not offer any make-up exams* except in the case of documented medical or psychological emergencies. In other words, I need a signed note from a doctor or psychologist saying that you were unable to be in class for a very good medical reason.

If someone in your family passes away, please accept my condolences. But you'll still need to take the exam at the time it is given unless you provide a note from a registered psychologist or psychiatrist that describes how you were mentally compromised on the day of the exam.

Disability modifications

The TAs and I are more than happy to work with you and Disability Services to provide appropriate course modifications. The University of Montana assures equal access to instruction through collaboration between students with disabilities, instructors, and Disability Services for Students (<https://www.umt.edu/dss/default.php>). If you think you may have a disability that adversely affects your academic performance, and if you have not already registered with Disability Services, please contact Disability Services in Lommasson Center 154 or call (406) 243-2243.

Grading

	Assignment	Points
Lecture	Lecture midterm exam	80
Lecture	Lecture final exam	100
Lecture	Essay 1	80
Lecture	Essay 2	80
Lab	Lab midterm exam	80
Lab	Lab final exam	80
Lab	Field journal	80
Lab	Convergent evolution lab report	60
Lab	Owl pellet lab report	30
Lab	Specimen preparation activity	10
	TOTAL	680

The final exams will be cumulative, but weighted towards material covered since the midterms.