

JAMESTOWN COMMUNITY COLLEGE
State University of New York

INSTITUTIONAL COURSE SYLLABUS

Course Title: Biology of Mammals

Course Abbreviation and Number: BIO 1560

Credit Hours: 1 credit hour.

Course Type: Lecture

Course Description: This course studies mammals, the group considered to be the peak of animal evolution. Students will learn about physiology, evolutionary history, classification and identification, behavior, and ecological importance. Outdoor fieldwork included.

Eligibility: ENG 1510 without supports or **Corequisite:** ENG 1510 with supports.

Student Learning Outcomes:

Students who demonstrate understanding can:

1. Identify and compare mammal morphologies to other animals.
 2. Utilize scientific classification, organization, and taxonomic nomenclature.
 3. Explain the principle of evolution and its application to the evolutionary history of mammals and the evolution of adaptive traits observed in today's mammals.
 4. Identify environmental influences on mammal survival, reproduction, and evolutionary pathways.
 5. Apply a basic knowledge of the evolution of mammal behaviors.
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Topics Covered:

- Mammal Characteristics
 - Basic Anatomy and Physiology
 - Classification and Identification
 - (Protheria, Metatheria, Eutheria)
 - Evolutionary History
 - Mammal Diversity/Distribution
 - VIDEO: A Winning Design
 - Mammal Adaptations: Hair, Horns, Antlers
 - Mammal Adaptations to Severe Environmental Conditions
 - VIDEO: Plant Predators
 - Mammal Dentition
 - Mammal Skull Features
 - Mammal Tracks
 - Field Trip/Video (weather dependent)
 - Selected Mammal Groups
 - (Chiroptera, Cetaceans, Ungulates, Carnivores)
 - Primates
 - Social Groups/Behavior
 - VIDEO: Social Climbers
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Information for Students

- Expectations of Students
 - [Civility Statement](#)
 - [Student Responsibility Statement](#)
 - [Academic Integrity Statement](#)
- [Accessibility Services](#)

Students who require accommodations to complete the requirements and expectations of this course because of a disability must make their accommodation requests to the Accessibility Services Coordinator.

- [Get Help: JCC & Community Resources](#)
- [Emergency Closing Procedures](#)

- Course grade is determined by the instructor based on a combination of factors, including but not limited to, homework, quizzes, exams, projects, and participation. Final course grade can be translated into a grade point value according to the following:

A=4.0	B+=3.5	B=3	C+=2.5	C=2	D+=1.5	D=1	F=0
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- Veterans and active duty military personnel with special circumstances (e.g., upcoming deployments, drill requirements, VA appointments) are welcome and encouraged to communicate these to the instructor.
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Effective Date: Fall 2021