



University of New Brunswick  
Faculty of Science  
BIOL 4732, Mammalogy, Fall 2021

COURSE SYLLABUS

<b>Instructor:</b>	René Malenfant	<b>Lecture Time:</b>	MWF: 9:30–10:20
<b>Email:</b>	<a href="mailto:rene.malenfant@unb.ca">rene.malenfant@unb.ca</a>	<b>Lab Time:</b>	W: 14:30–17:20
<b>Phone:</b>	458-7462	<b>Locations:</b>	Lecture: B102 Lab: B114
<b>Office Location:</b>	B111	<b>Office Hours:</b>	By appointment ( <a href="#">link</a> )

**Course Description:**

Studies mammals, covering taxonomy, adaptations, reproduction, populations, physiology, behaviour and ecology.

**Course Prerequisites:**

BIOL 2063, 2068

**Recommended Textbook:**

Feldhamer et al., 2020. *Mammalogy*. 5<sup>th</sup> Ed. Johns Hopkins University Press. Baltimore, MD. [A copy of the 4<sup>th</sup> edition is on reserve at the Science Library.]

or:

Vaughan et al., 2015. *Mammalogy*. 6<sup>th</sup> Ed. Jones & Bartlett Learning. Burlington, MA. [A copy of the 5<sup>th</sup> edition is on reserve at the Science Library.]

**Other Course Resources:**

The following books will be available in lab:

Jones & Manning, 1992. *Illustrated Key to Skulls of Genera of North American Land Mammals*. Texas Tech University Press. Lubbock, TX.

Lawlor, 1976. *Handbook to the Orders and Families of Living Mammals*. Mad River Press. Eureka, CA.

Reid, 2006. *Mammals of North America*. 4<sup>th</sup> Ed. Houghton Mifflin Company. New York, NY.

**Library Information:**

[www.lib.unb.ca](http://www.lib.unb.ca)

UNB Libraries provides access to a vast collection of online and print resources. Use Research by Subject on the library website to find the best resources for this course.

Research help is available by phone, e-mail, chat, and in-person.

The libraries offer quiet and group study space. Book a Group Study Room online at

[http://www.lib.unb.ca/services/group\\_study.php](http://www.lib.unb.ca/services/group_study.php)

**Online Materials:**

Online course materials can be found in Desire2Learn (Brightspace), UNB's online Learning Management System. You can access it through the MyUNB portal for single login to all UNB services

(<https://my.unb.ca/Pages/default.aspx>) or directly by pasting [lms.unb.ca](https://lms.unb.ca) into your browser address bar.

### Course Objectives:

This course is designed as an upper-level course focussing on the ecology and evolution of mammals. The adaptations of mammals are evident in their anatomy, their physiology, and their behaviour. To understand these adaptations, we will use the taxonomy of the class Mammalia and apply the “form-and-function principle” to a wide range of mammal species. Some adaptations are not evident in the structures of an animal, and we will look to their behaviour to understand how these animals survive. We also will address the ecological roles of mammals as frugivores and granivores, as selective herbivores that influence forest composition, and as carnivores acting as functionally dominant predators.

### Grading Scale:

Letter Grade	Percentage Grade	Grade Points
A+	[93–100]%	4.3
A	[85–93]%	4.0 <i>Excellent</i>
A-	[80–85]%	3.7
B+	[75–80]%	3.3
B	[70–75]%	3.0 <i>Good</i>
B-	[65–70]%	2.7
C+	[60–65]%	2.3
C	[55–60]%	2.0 <i>Satisfactory</i>
D	[50–55]%	1.0
F	[0–50]%	0.0

### Course Marking Scheme

Item	Description	Value	Date	Details
Assignment	Carnivore vs. herbivore skulls	10%	Oct. 4	Two parts
Quiz (Lecture)	Skull/skeleton quiz	10%	Oct. 13	
Midterm (Lecture)		20%	Nov. 17	
Final Exam (Lab)		20%	Nov. 29	
Final Exam (Lecture)		40%	TBA	
<b>Total:</b>		<b>100%</b>		

### Course Policies:

- Please note the university’s policies on attendance and decorum: <http://go.unb.ca/tls1viWva>, and <http://go.unb.ca/tlsmWzKLL>
- All assignments must be received by the beginning of the class in which they are due.
- A student who cannot complete an assignment or attend an examination due to incapacitating illness, severe domestic affliction, or other compelling reasons can *apply* for a deferral. Without approval, there is a 20% penalty for each day that an assignment is late, where “days” are counted from midnight to midnight including weekends and are judged based on the time submitted to the instructor. In all cases, the instructor may request adequate documentation to substantiate the reason for the absence. Deferral of term work is a privilege and not a right; there is no guarantee that a deferral will be granted.



**University of New Brunswick**  
**Faculty of Science**  
**BIOL 4732, Mammalogy, Fall 2021**

---

- Mobile devices are to be turned off during lectures and labs.
- **Email policy:** Please reserve email only for *administrative or confidential questions* that cannot be asked in front of other students (e.g., a question about your grades, a request to meet during my office hours). For questions about course content, see #7 below.
- All questions regarding course material should be asked using the Question & Answer forum on D2L. If you are shy, you can post your question to the forum *anonymously*. I will try to answer all questions as soon as I see them. Generally, this means that you will receive a reply very quickly during the workweek (i.e., Monday–Friday, 9:00 AM to 5:00 PM), and much slower (or perhaps not at all) afterhours or on the weekend. *Please also feel free to answer other students' questions if you know the answers.* **Note:** I will not answer questions about the content of assignments or examinations within 24 hours of the deadline or exam. This is a motivation for you to start studying/working early.
- There will be no extra-credit assignments.

### **Services for Students with Disabilities**

If you are a student with a disability of any type (physical, mental, learning, medical, chronic health, sensory; visible or invisible) you are strongly encouraged to register with the UNBF Student Accessibility Centre (SAC) (<http://www.unb.ca/fredericton/student-services/academics/accessibility/>) so that you may receive appropriate services and accommodations. Once you are registered with SAC, the instructor will be notified via the UNBF SAC Accommodation Letter of your specific accommodations. If you would like to discuss your particular needs with the instructor, please book a time for a confidential appointment.

### **Privacy Statement for Online Course Recordings**

The recordings of your online classes are for your personal use for course purposes only and not to be shared with others.

- Be respectful of your peers and instructors. Sharing of any personal information, including but not limited to personal views and opinions with others, other than for course purposes, is not permitted and may violate UNB's Policy for the Protection of Personal Information and Privacy.
- Personal opinions, views, and commentary provided in the course of online delivery may be considered personal information, which requires the consent of the person who provided it in order to share it ethically and legally.
- The content shared by faculty and instructors is subject to copyright and cannot be shared without the explicit permission of the copyright owner, which may include but not be limited to the course instructor, their colleagues, textbook publishers, and multimedia vendor.

## Weekly Schedule

Below is the intended schedule. Lecture topics may be subject to change.

Date	Day	Topics	Assessments
Sept. 8	W	Introduction	
Sept. 10	F	History of mammalogy	
Sept. 13	M	Methods in mammalogy	
Sept. 15	W	Methods in mammalogy	
Sept. 17	F	Evolution of mammals	
Sept. 20	M	Skull, skeleton	
Sept. 22	W	Dentition	
Sept. 24	F	Musculature, integument	
Sept. 27	M	Digestive system	
Sept. 29	W	Nervous system & sense organs	
Oct. 1	F	Endocrine system	
Oct. 4	M	Circulatory, lymphatic, and respiratory systems	
Oct. 6	W	Urogenital system & reproduction	
Oct. 8	F	Biogeography	
Oct. 11	M	<i>Thanksgiving – no class</i>	
Oct. 13	W	Monotremata	<b>Quiz</b>
Oct. 15	F	Metatheria	
Oct. 18	M	“Insectivora”	
Oct. 20	W	Chiroptera	
Oct. 22	F	Primates	
Oct. 25	M	Xenarthra, Pholidota, and Tubulidentata	
Oct. 27	W	Carnivora	
Oct. 29	F	Rodentia and Lagomorpha	
Nov. 1	M	Rodentia and Lagomorpha	
Nov. 3	W	Paenungulata	
Nov. 5	F	Perissodactyla and Artiodactyla	
Nov. 8	M	<i>Reading week – no class</i>	
Nov. 10	W	<i>Reading week – no class</i>	
Nov. 12	F	<i>Reading week – no class</i>	
Nov. 15	M	Cetacea	
Nov. 17	W	N/A	<b>Midterm</b>
Nov. 19	F	Communication ( <i>tentative</i> )	
Nov. 22	M	Reproductive strategies ( <i>tentative</i> )	
Nov. 24	W	Social behaviour ( <i>tentative</i> )	
Nov. 26	F	Reproduction ( <i>tentative</i> )	
Nov. 29	M	Dispersal and migration ( <i>tentative</i> )	
Dec. 1	W	Life histories ( <i>tentative</i> )	
Dec. 3	F	Domestication ( <i>tentative</i> )	
Dec. 6	M	Conservation ( <i>tentative</i> )	
Dec. 8	W	<i>Review session</i>	



### Lab Schedule

The schedule is subject to change – watch for e-mails; announcements in class on days of the lab or via Desire2Learn). **Labs will be held in B114 on Wednesdays from 2:30–5:20 PM.**

Week #	Date	Topic
	Sept. 8	<i>No lab</i>
1	Sept. 15	Introduction
2	Sept. 22	Skull design
3	Sept. 29	Skulls, skeletons
4	Oct. 6	Dentition
	Oct. 13	<i>Thanksgiving – no lab</i>
5	Oct. 20	Integument (hair, horns, feet)
6	Oct. 27	Monotremes, Metatherians, Insectivora
7	Nov. 3	Chiroptera, Primates, Carnivora, odds & ends
	Nov. 10	<i>Reading week – no lab</i>
8	Nov. 17	Rodentia, Lagomorpha, Paenungulata, ungulates
9	Nov. 24	Lab exam prep class
10	Dec. 1	Final exam (bell ringer)
	Dec. 8	<i>No lab</i>

### Lab Attendance

Attendance is **mandatory**.

### Lab Safety Procedures and Conduct:

No food or drink is permitted in the laboratory.

### Writing and Study Skills Support:

UNB's Student Services provides many coaching and mentoring services to assist with writing papers, effective study methods, and other skills development related to student success:

<http://www.unb.ca/fredericton/studentservices/academics/writing-centre/index.html>

### Math Skills Support:

UNB's Math Learning Centre offers math help drop-in times and opportunity to book appointments:

<http://www.math.unb.ca/~mathhelp/>

### Technical Support:

Information Technology Services (ITS) Help Desk can be reached by phone 453-5199, email - [helpdesk@unb.ca](mailto:helpdesk@unb.ca), or visited in person at the Harriet Irving Library Learning Commons.

<http://www.unb.ca/its/get-it-help.html>

### Academic Advising:

For academic advising information and assistance, see: [www.unb.ca/student-toolkit](http://www.unb.ca/student-toolkit)

## Academic Offences

Academic offences include, but are not limited to, the following:

### Plagiarism

Plagiarism includes:

1. quoting verbatim or almost verbatim from any source, regardless of format, without acknowledgement;
2. adopting someone else's line of thought, argument, arrangement, or supporting evidence (such as, statistics, bibliographies, etc.) without indicating such dependence;
3. submitting someone else's work, in whatever form (essay, film, workbook, artwork, computer materials, etc.) without acknowledgement;
4. knowingly representing as one's own work any idea of another.

**NOTE:** In courses which include group work, a penalty may be imposed on all members of the group unless an act of plagiarism is identified clearly with an individual student or students.

Examples of other academic offences include: cheating on exams, tests, assignments or reports; impersonating somebody at a test or exam; obtaining an exam, test or other course materials through theft, collusion, purchase or other improper manner, submitting course work that is identical or substantially similar to work that has been submitted for another course; and more as set out in the academic regulations found in the Undergraduate Calendar.

Penalties for plagiarism and other academic offences range from a minimum of F (zero) in the assignment, exam or test to a maximum of suspension or expulsion from the University, plus a notation of the academic offence on the student's transcript.

For more information, please see the Undergraduate Calendar, University Wide Academic Regulations, Regulation VIII.A, or visit: <http://go.unb.ca/tlsPb0XX5>. It is the student's responsibility to know the regulations.