

## Animal Biology (Biology 1110)

### Professor:

Dr. Janice M. Hughes  
Office: CB 4052 (Centennial Building)  
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Office Hours: Wednesday 11:45 to 12:45  
Office hours by appointment are available and encouraged.  
Contacting me by email is best.

### Lab Technician:

Ms. Emma Lehmberg  
Office: CB 3027 (Herbarium) or CB 3014A  
Email: elehmber@lakeheadu.ca

### Required Books:

Lecture Notes: *Animal Biology Lecture Manual* (download available on the D2L course webpage)

Textbook/Lab Manual: *Exploring Zoology, 2<sup>nd</sup> edition*. DG Smith and MP Schenk. Morton Publishing. (available in the bookstore)

### Marking Scheme: Lectures

The lecture component of this course comprises 60% of the overall course grade. There are two midterm tests on February 7<sup>th</sup> and March 12<sup>th</sup>. These tests will be run online through the D2L course webpage. Additional instructions for these tests are available on the D2L course webpage. The final exam is not online, and will occur during the April exam period.

Midterm Test 1	Origins through Nematodes	10%
Midterm Test 2	Molluscs through Introduction to Chordates	15%
Final Exam	Fishes through Mammals	35%

The tests and final exam are not cumulative.

If you miss a midterm test due to illness, you must (1) inform me by email within 24 hours of the scheduled test time, and (2) provide a doctor's note within 5 days of the missed test that explains your absence. Otherwise, you will not be able to write a make-up test. Athletes who will miss a midterm test due to out-of-town competitions must

provide a letter or email from their coach in advance that clearly shows the dates of their competitions. No other excuses (e.g., vacations, sleeping in, or non-university related activities) for missing tests will be accepted. If you miss the final exam, you must follow the procedures outlined by Enrolment Services (see University Regulations link below) including providing a valid *Certificate of Illness and Incapacity* to Enrolment Services before a make-up exam can be rescheduled.

University Regulations link:

<https://navigator.lakeheadu.ca/Catalog/ViewCatalog.aspx?pageid=viewcatalog&catalogid=23&chapterid=5698&loaduserredits=False>

### Marking Scheme: Labs

The lab component of this course comprises 40% of the overall course grade. There are two lab exams worth 15% each. There are 7 lab quizzes worth 10% total; only the best 5 of 7 quiz marks will count towards your final grade.

Lab Exam 1	Based on Labs 1 to 4	15%
Lab Exam 2	Based on Labs 5 to 9	15%
Lab Quizzes	See lab schedule	10%

The lab exams are not cumulative. More information about lab quizzes and exams will be provided during the labs and on the course webpage. There are also three potential bonus marks that can be earned during the labs. More information about bonus marks will be provided during the labs.

### Important Dates:

Labs start on the week of January 16/18.

Study week occurs from Monday, February 19 to Friday, February 23.

Final date to drop the course without academic penalty is March 9.

The final exam will be held during the exam period from April 13 to 24.

DO NOT make travel arrangements until after the final exam schedule comes out! There have been years when the Animal Biology final exam was scheduled on the last day of the exam period. I cannot change the date of the final exam.

**SCHEDULE OF LECTURE TOPICS**

Week of	Jan 8	Introduction to the Course Origins of Life Evolution
Week of	Jan 15	Classification Animal Body Plans Reproduction
Week of	Jan 22	Sponges (Porifera) Radiate Animals (Cnidaria) Flatworms (Platyhelminthes)
Week of	Jan 29	Roundworms (Nematodes) Molluscs (Mollusca)
Week of	Feb 5	Segmented Worms (Annelida) <b>Feb 7: Midterm Test 1 (No Lecture Today)</b>
Week of	Feb 12	Arthropods – Chelicerata Arthropods – Crustacea Arthropods – Myriapoda
Week of	Feb 19	<b>Study week</b>
Week of	Feb 26	Arthropods – Insects (Hexapoda) Echinoderms Introduction to Chordates
Week of	Mar 5	Cartilaginous Fishes (Chondrichthyes) Bony Fishes (Osteichthyes)
Week of	Mar 12	<b>Mar 12: Midterm Test 2 (No Lecture Today)</b> Amphibians (Lissamphibia)
Week of	Mar 19	Reptiles (Reptilia) Birds (Aves)
Week of	Mar 26	Birds (Aves) Mammals (Mammalia)
Week of	Apr 4	Mammals (Mammalia)
Week of	Apr 9	Make up day for Easter Monday (if necessary)

**SCHEDULE OF LAB TOPICS**

Jan	9/11	<b>No lab</b>
Jan	16/18	Introduction to the Labs/Taxonomy
Jan	23/25	Porifera, Cnidaria, Platyhelminthes, Nematoda <b>(Lab Quiz 1)</b>
Jan/Feb	30/1	Mollusca and Annelida <b>(Lab Quiz 2)</b>
Feb	6/8	Arthropoda 1: Chelicerata and Crustacea <b>(Lab Quiz 3)</b>
Feb	13/15	<b>Lab Exam 1</b> – Labs 1 to 4
Feb	20/22	<b>Study Week</b>
Feb/Mar	27/1	Arthropoda 2: Myriapoda and Insects
Mar	6/8	Echinodermata and Protochordates <b>(Lab Quiz 4)</b>
Mar	13/15	Fishes <b>(Lab Quiz 5)</b>
Mar	20/22	Amphibians, Reptiles, and Birds <b>(Lab Quiz 6)</b>
Mar	27/29	Mammals <b>(Lab Quiz 7)</b>
Apr	3/5	<b>Lab Exam 2</b> – Labs 5 to 9