

Animal Biology (Biology 1110)

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Office hours by appointment are available and encouraged.
Contacting me by email is best.

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Required Books:

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

Textbook/Lab Manual: *Exploring Zoology, 2nd 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 6 and March 6. These tests will be run online through the D2L course webpage. Additional instructions for these tests are available on the course webpage. The final exam is not online, and will occur during the April exam period. The tests and final exam are not cumulative.

Midterm Test 1	Origins through Flatworms	10%
Midterm Test 2	Roundworms through Arthropods	10%
Final Exam	Echinoderms through Mammals	40%

Please remember that you must do the online tests alone (no help from friends, family, or classmates!). The minimum penalty for collaboration on the tests will be a mark of zero on the test. You can find more information about the online tests on the D2L course webpage. Not reading these instructions is not an excuse for not knowing them!

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 9 lab quizzes worth 10% total. The lab quizzes will be offered online through D2L.

Lab Exam 1	Based on Labs 1 to 4	15%
Lab Exam 2	Based on Labs 5 to 9	15%
Lab Quizzes	See lab quiz schedule on D2L	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 15/17.

Study week occurs from Monday, February 18 to Friday, February 22.

Final date to drop the course without academic penalty is March 8.

The final exam will be held during the exam period from April 8 to 20.

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 7	Introduction to the Course Origins of Life Evolution
Week of	Jan 14	Classification Animal Body Plans Reproduction
Week of	Jan 21	Sponges (Porifera) Radiate Animals (Cnidaria) Flatworms (Platyhelminthes)
Week of	Jan 28	Roundworms (Nematodes) Molluscs (Mollusca)
Week of	Feb 4	Segmented Worms (Annelida) Feb 6: Midterm Test 1 (No Lecture Today)
Week of	Feb 11	Arthropods – Chelicerata Arthropods – Crustacea Arthropods – Myriapoda
Week of	Feb 18	Study week
Week of	Feb 25	Arthropods – Insects (Hexapoda) Echinoderms Introduction to Chordates
Week of	Mar 4	Cartilaginous Fishes (Chondrichthyes) Mar 6: Midterm Test 2 (No Lecture Today)
Week of	Mar 11	Bony Fishes (Osteichthyes) Amphibians (Lissamphibia)
Week of	Mar 18	Reptiles (Reptilia)
Week of	Mar 25	Birds (Aves)
Week of	Apr 1	Mammals (Mammalia)

SCHEDULE OF LAB TOPICS

Jan	8/10	No lab
Jan	15/17	Introduction to the Labs/Taxonomy Chapters 1 and 5
Jan	22/24	Sponges, Cnidarians, Flatworms, Roundworms Chapters 7, 8, 9, and 10
Jan	29/31	Mollusca and Annelida Chapters 11 and 12
Feb	5/7	Arthropoda 1: Chelicerata and Crustacea Chapter 13 (pages 249-266)
Feb	12/14	Lab Exam 1 – Labs 1 to 4
Feb	19/21	Study Week
Feb	26/28	Arthropoda 2: Myriapoda and Insects Chapter 13 (pages 267-288)
Mar	5/7	Echinodermata and Protochordates Chapters 14 and 15
Mar	12/14	Fishes Chapters 16, 17, and 18
Mar	19/21	Amphibians, Reptiles, and Birds Chapter 19, 20, and 21
Mar	26/28	Mammals Chapter 22
Apr	2/4	Lab Exam 2 – Labs 5 to 9