

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 5 and March 4. 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.

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| Midterm Test 1 | Origins (Unit 1) through Flatworms (Unit 8) | 10% |
| Midterm Test 2 | Roundworms (Unit 9) through Arthropods (Unit 13) | 10% |
| Final Exam | Echinoderms (Unit 14) through Mammals (Unit 20) | 40% |

Marking Scheme: Labs

The lab component of this course comprises 40% of the overall course grade. There are two bell-ringer lab exams worth 15% each during the weeks of February 11 and March 31. The lab exams are not cumulative.

There are also nine weekly lab quizzes worth 10% total; they will be offered online through D2L. The lab quiz for each lab will be available online from Thursday at 5:30 pm (on the week of the lab) until the following Tuesday at 8:30 am. The lab quizzes will not be available to complete at any other time. More information about lab quizzes and exams will be provided during the labs and on the course webpage.

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| 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% |

There are also three potential bonus marks that can be earned during the labs by completing the weekly material and having it verified by a teaching assistant. You will not be able to earn these bonus marks unless you attend the labs, and there will be no opportunity to make up missed labs. More information about bonus marks will be provided during the labs.

Important Dates:

Labs start on the week of January 14/16.

Study week occurs from Monday, February 17 to Friday, February 21.

Final date to drop the course without academic penalty is March 6.

The final exam will be held during the exam period from April 6 to 19.

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.

Other Important Information:

Accessibility: I am fully committed to providing all recommended accommodations for students with disabilities who are registered with Student Accessibility Service. Please make an appointment with me to discuss these options.

Absence due to illness: 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 Student Central before a make-up exam can be rescheduled.

You can find the university regulations regarding missing final exams here:

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

Academic Dishonesty: Lakehead University takes academic dishonesty very seriously; this includes (but is not restricted to) cheating, plagiarism, collaboration, and impersonation. There is a zero-tolerance policy for any form of academic dishonesty in my courses, and penalties will be strictly enforced. Also if you are caught participating in academic dishonesty in this course, a formal report will be sent to the Dean of Sciences and Environmental Studies and the Office of Student Affairs, and documentation of the offense may be added to the Student Conduct Database and your permanent academic record.

You can find the university regulations regarding academic dishonesty here:

<https://www.lakeheadu.ca/faculty-and-staff/departments/services/provost-vice-president-academic/academic-integrity-plans-policies/academic-dishonesty-regulations>

According to these regulations, any collaboration on online exams and quizzes is considered cheating. You must do the online tests alone with no help from friends, family, or classmates! The minimum penalty for collaboration or cheating is a mark of zero on the test. Not reading these instructions is not an excuse for not knowing them!

Special exam: If you fail the course with a final grade between 40 and 49 (or you qualify based on other circumstances, see link below), you may be eligible to write the special exam in June. The mark on the special exam will replace the mark that you received on the final exam in April. It is your responsibility to sign up for the special exam through Student Central before the deadline in May. It is advisable that you take the special exam very seriously because if you do poorly on it, your final grade may go down. We do not pick the highest of the two exam grades.

You can find information regarding the special exam here:

<https://www.lakeheadu.ca/studentcentral/exams-grades/special-exam-criteria>

<https://www.lakeheadu.ca/studentcentral/exams-grades/special-exam-deadline-dates>

SCHEDULE OF LECTURE TOPICS

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| Week of | Jan 6 | Introduction to the Course Origins of Life Evolution |
| Week of | Jan 13 | Classification Animal Body Plans Reproduction |
| Week of | Jan 20 | Sponges (Porifera) Radiate Animals (Cnidaria) Flatworms (Platyhelminthes) |
| Week of | Jan 27 | Roundworms (Nematodes) Molluscs (Mollusca) |
| Week of | Feb 3 | Segmented Worms (Annelida) Feb 5: Midterm Test 1 (No Lecture Today) |
| Week of | Feb 10 | Arthropods – Chelicerata Arthropods – Crustacea Arthropods – Myriapoda |
| Week of | Feb 17 | Study week |
| Week of | Feb 24 | Arthropods – Insects (Hexapoda) Echinoderms Introduction to Chordates |
| Week of | Mar 2 | Cartilaginous Fishes (Chondrichthyes) Mar 4: Midterm Test 2 (No Lecture Today) |
| Week of | Mar 9 | Bony Fishes (Osteichthyes) Amphibians (Lissamphibia) |
| Week of | Mar 16 | Reptiles (Reptilia) |
| Week of | Mar 23 | Birds (Aves) |
| Week of | Mar 30 | Mammals (Mammalia) |

SCHEDULE OF LAB TOPICS

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| Jan | 7/9 | No lab |
| Jan | 14/16 | Introduction to the Labs/Taxonomy Chapters 1 and 5 |
| Jan | 21/23 | Sponges, Cnidarians, Flatworms, Roundworms Chapters 7, 8, 9, and 10 |
| Jan | 28/30 | Mollusca and Annelida Chapters 11 and 12 |
| Feb | 4/6 | Arthropoda 1: Chelicerata and Crustacea Chapter 13 (pages 249-266) |
| Feb | 11/13 | Lab Exam 1 – Labs 1 to 4 |
| Feb | 18/20 | Study Week |
| Feb | 25/27 | Arthropoda 2: Myriapoda and Insects Chapter 13 (pages 267-288) |
| Mar | 3/5 | Echinodermata and Protochordates Chapters 14 and 15 |
| Mar | 10/12 | Fishes Chapters 16, 17, and 18 |
| Mar | 17/19 | Amphibians, Reptiles, and Birds Chapter 19, 20, and 21 |
| Mar | 24/26 | Mammals Chapter 22 |
| Mar/Apr | 31/2 | Lab Exam 2 – Labs 5 to 9 |