

Animal Biology (Biology 1110)

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Textbooks:

Required Manuals: *Animal Biology Laboratory Manual*. 2016.
Animal Biology Lecture Manual. 2016.

Textbook: *Van DeGraff's Photographic Atlas for the Zoological Laboratory*, 7th edition. 2013. Adams and Crawley. Morton.

Suggested: *Principles of Biology* (ebook). 2015. Nature Education.

If you would like to buy another reference book, I suggest that you purchase one of the following. Used copies are available on the internet at affordable prices.

Zoology. Miller and Harley. McGraw-Hill.
Integrated Principles of Zoology. Hickman et al. McGraw-Hill.

Marking Scheme: Lectures

The lecture component of this course comprises 60% of the overall course grade. There are two midterm tests worth 20% each, but only the midterm with the highest mark will count towards your final grade.

Midterm Test 1	Origins through Nematodes	20%
Midterm Test 2	Molluscs through Introduction to Chordates	20%
Final Exam	Fishes through Mammals	40%

The tests and exams are NOT cumulative.

The duration of the mid-term tests is 50 minutes.

The duration of the final exam is 2 hours.

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 7 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, car trouble, sleeping in, or non-university related activities) for missing tests or exams will be accepted.

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.

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 6 lab quizzes worth 10% total; only the best 5 of 6 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 8	15%
Lab Quizzes	See lab manual for details	10%

The exams are NOT cumulative. See the lab manual for more information about lab quizzes and exams. There are also 3 potential bonus marks that can be earned during the labs. See the lab manual for more information about bonus marks.

Important Dates:

Labs start on the week of January 12.

Study week occurs from Monday, February 15 to Friday, February 19.

There will be no lectures on March 25 and 28 due to Easter holidays.

The make-up day for the Good Friday class is Tuesday, April 4.

The final exam will be held during the exam period from April 8 to 21.

SCHEDULE OF LECTURE TOPICS

Week of	Jan 4	Introduction to the Course Origins of Life Evolution
Week of	Jan 11	Classification Animal Body Plans Reproduction
Week of	Jan 18	Sponges (Porifera) Radiate Animals (Cnidaria) Flatworms (Platyhelminthes)
Week of	Jan 25	Roundworms (Nematodes) Molluscs (Mollusca)
Week of	Feb 1	Segmented Worms (Annelida) Feb 3: Test 1 – Origins through Nematodes
Week of	Feb 8	Arthropods – Chelicerata Arthropods – Crustacea Arthropods – Myriapoda
Week of	Feb 15	Study week
Week of	Feb 22	Arthropods – Insects (Hexapoda) Echinoderms Introduction to Chordates
Week of	Feb 29	Cartilaginous Fishes (Chondrichthyes) Bony Fishes (Osteichthyes)
Week of	Mar 7	Amphibians (Lissamphibia) Mar 9: Test 2 – Molluscs through Intro to Chordates
Week of	Mar 14	Reptiles (Reptilia) Birds (Aves)
Week of	Mar 21	Birds (Aves) continued Mar 25: Good Friday Holiday

Week of	Mar 28	Mar 28: Easter Monday Holiday Mammals (Mammalia)
Week of	Apr 4	Mammals (Mammalia) continued

SCHEDULE OF LAB TOPICS

Jan	5/7	No lab
Jan	12/14	Reproduction and Development
Jan	19/21	Protista, Porifera, and Cnidaria (Lab Quiz 1)
Jan	26/28	“Worms” and Mollusca (Lab Quiz 2)
Feb	2/4	Arthropoda 1: Chelicerata and Crustacea (Lab Quiz 3)
Feb	9/11	Lab Exam 1 – Labs 1 to 4
		Study Week
Feb	23/25	Arthropoda 2: Myriapoda and Insects
Mar	1/3	Echinodermata and Protochordates (Lab Quiz 4)
Mar	8/10	Chordata 1: “Fish” and Amphibians (Lab Quiz 5)
Mar	15/17	Chordata 2: Reptiles, Birds, and Mammals (Lab Quiz 6)
Mar	22/24	Lab Exam 2 – Labs 5 to 8
Apr	3/5	No lab