OUC Biol 213 - Invertebrate Biology
Winter 1999

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Web pages: http://www.ouc.bc.ca/biol/
Lectures: Tues. & Thurs. 11:30-12:50, SCI 234
Labs: Wed. 14:30-17:30, SCI 141
Office hours: to be determined

Textbook:

Pechenik, J.A. 1996. *Biology of the Invertebrates, 3rd ed*. Wm. C. Brown Publishers, Dubuque, IA.

There is no lab manual, you will be using Pechenik for both the lecture and the lab.

Prerequisites: Biol 112 or both of Biol 121 and 122

Objectives:

This course will provide you with an introduction to the structure, function, evolution and diversity of invertebrate animals. We will spend very little time in lecture describing the different invertebrate groups. You need to read ahead to familiarize yourself with the groups we will discuss. You will also have the chance to become familiar with some of the invertebrate groups in the lab. Most of the lecture we will focus on the following questions:

1. How does a particular group of invertebrates work (e.g., physiology)?
2. How does a particular group of invertebrates interact with their environment (e.g., feeding, moving)?
3. What are the evolutionary relationships amongst the different invertebrates?

You will also have the opportunity to research a particular group of invertebrates (of your choosing) in detail. We will be putting together a virtual invertebrate museum by creating web pages describing different groups of invertebrates. Each student will get to choose an invertebrate group and then put together an HTML display to describe that group to the general public. There will be some instruction on how to create web pages provided in class.

Evaluation:

Virtual Museum Assignment	10%
Labs	30%
Midterm Exam I	15%
Midterm Exam II	15%
Final Exam	30%

You must pass both the lab and the lecture component of the course to pass the course. If you fail either the lab or lecture component of the course the maximum grade you may achieve is 49%. If you miss an exam or an assignment you must provide documented evidence of a medical or compassionate reason for doing so or receive a mark of 0 for that assignment or exam.

Lecture Schedule:

DATE	TOPIC	READING
Jan. 7	Introduction, invertebrates and the environment	1, 2
Jan. 12	Protozoans	3
Jan. 14	Protozoans	3
Jan. 19	Poriferans & Placozoans	4
Jan. 21	Cnidarians	5, 9
Jan. 26	Cnidarians & Ctenophores	5, 6
Jan. 28	Platyhelminthes	7
Feb. 2	Platyhelminthes & relatives	7, 8
Feb. 4	Nemertines & Nematodes	10, 11
Feb. 9	**MIDTERM I**	
Feb. 11	Nematomorpha et al & Rotifers	12, 13
Feb. 16	Molluscs	14
Feb. 18	Molluscs	14
Feb. 23 & 25	**Reading Week - no classes**	**catch up**
Mar. 2	Annelids	15
Mar. 4	Annelids	15
Mar. 9	Echiurans, Sipunculans & Pogonorphans	16, 17
Mar. 11	Arthropods	18
Mar. 16	Arthropods	18
Mar. 18	**MIDTERM II**	
Mar. 23	Arthropods, Tardigrades & Onchyphorans	18, 19
Mar. 25	Lophophorates & Entoprocts	20
Mar. 30	Echinoderms	21
Apr. 1	Echinoderms	21
Apr. 6	Chaetognaths & Hemichordates	22, 23
Apr. 8	Non-Vertebrate Chordates	24
Apr. 13	The big picture	25
Apr. 15	The big picture and review	

This schedule is tentative and I will attempt to keep you updated depending upon how quickly or slowly we cover the material.