

## Biology 376L: Animal Biology Laboratory Section 2

### Spring 2011

=====

<b>Instructor:</b> Dr. Vasyl Tkach	<b>Teaching assistant:</b> Danielle Kvasager
<b>Office:</b> 215 Starcher	<b>Office:</b> Room 8 Starcher
<b>Office hours:</b> 11-12 a.m. MF, by appointment	
<b>Phone:</b> 777-4675	<b>Phone:</b> 777-4564
<b>E-mail:</b> vasyt.tkach@und.edu	<b>E-mail:</b> Danielle.K.Olson@und.edu

**LABORATORY CLASS:** 1 credit.

**OBJECTIVES:** Laboratories are designed to familiarize students with representatives of major invertebrate and vertebrate groups using preserved, and, where possible, live specimens. Students will be expected to recognize particular characteristics of an organism that allow for their accurate taxonomic placement. Laboratory projects will include classic and modern techniques used in zoological studies.

**Lab manual (recommended, not required):** Hickman, Kats, Keen. Laboratory Studies in Integrated Principles of Zoology, 14<sup>th</sup> edition. (McGrawHill, 2008 or earlier edition)

**Lab schedule:** 2:00 PM-3:50 PM **Wednesday SH 119**

**Attendance:** Consistent attendance worth points and is your only way to become familiar with objects and earn good grades! No make up quizzes or exam will be given.

**Quizzes:** Announced or unannounced quizzes will be completed in a set period of time. All students will be required to hand in their quiz at the end of this period of time—don't be late to class! **Make-up exams will be allowed only for valid absences and are entirely at the instructor's discretion.**

**Cell phones** should be turned off for the duration of the lecture. Use of cell phones (including texting) in class is inappropriate and distracting. Technology is great, but please use it before/after the class.

**Grading:** final grades will be based on a total of approximately 150 points; the following breakdown is an estimate—the number of points may vary slightly

<b>Point Source:</b>	<b>Possible Points:</b>	<b>Grading Scale:</b>
Lab quizzes: 3 x 15 pts	45	<b>89.6 – 100 % A</b>
1 lab project 25	25	<b>79.6 – 89.5 % B</b>
Final exam	60	<b>69.6 – 79.6 % C</b>
Attendance	15	<b>59.6 – 69.5 % D</b>
Cleanness	5	<b>&lt; 59.6 % F</b>
<b>TOTAL</b>	<b>150 (Approximate)</b>	

**Special Note:** If you need accommodations in this course because of a disability, please make an appointment with Dr. Tkach as soon as possible.

## Tentative lab schedule

<i>Week</i>	<i>Laboratory dates</i>	<i>Laboratory topics</i>
1	Wed. Jan 19	NO LAB
2	Wed. Jan 26	Intro Lab. Safety. Microscopes. Embryonic development.
3	Wed. Feb 2	Protozoa
4	Wed. Feb 9	Porifera, Cnidaria
5	Wed. Feb 16	Platyhelminthes. Starting project.
6	Wed. Feb 23	<b>Nematoda.</b>
7	Wed. Feb 24	Mollusca.
8	Wed. Mar 2	Annelida & Arthropoda
9	Wed. Mar 9	Arthropoda Echinodermata
10	Wed. Mar 16	<b>SPRING BREAK</b>
11	Wed. Mar 23	Project
12	Wed. Mar 30	Lower Chordata. Fishes.
13	Wed. Apr 6	Amphibians
14	Wed. Apr 13	Reptiles
15	Wed. Apr 20	Birds. Finishing project.
16	Wed. Apr 27	Mammals
17	Wed. May 4	<b>Final Exam</b>