

Donna Charley-Johnson
Biology of Animals 26-230
Lab Syllabus Section A01-A02
Halsey Science 30

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Office Hours: Tuesday 12:40-1:20 or by appointment

Texts: 1. "Laboratory Studies in Animal Diversity", by Hickman and Kats

2. Biology of Animals Lab Manual by Donna Charley-Johnson (available at the bookstore)

Grading: Lab is worth 50% of your final grade. Your lab grades will be based on three lab practicals (100 points each) and your score (out of 100 points) on the Wisconsin Animal Photography Project.

Student Preparation and Study:

1. The student should read for understanding the relevant pages in the Hickman and Kats lab manual prior to each lab.
2. The student should complete the study guides provided in the lab supplement while in lab and have the instructor confirm accuracy.
3. The student should ask lots of questions while in lab. You will have an expert there to help you. USE HER!
4. The student should spend extra time in lab, outside of regular class time, going over the material and honing the skills introduced throughout the course.
5. To achieve maximum retention of material and the best grades students are encouraged to look the material over regularly. "20 minutes a day gets you an A." This is not the class to cram the night before! One bad exam, because they are worth such a large portion of your final grade, can be disastrous.

Objectives:

1. Lab should supplement the material presented in lecture by showing the student what structures look like and where they are located in the organism.
2. The student should be able to identify the organisms studied in lab exercises.
3. The student should be able to provide taxonomic categories for the organisms studied to include kingdom, phylum, class, order, genus, and species.
4. The student should be able to identify structures within an organism and define that structure's function.
5. The student should be able to identify various life cycle stages of the organisms studied.
6. The student should be able to relate the studied organisms to their particular environments.
7. The student should be able to relate the studied organisms to their impact on humans.
8. The student should develop microscopy skills including use of multiple light sources and objectives.
9. The student should be able to perform a simple fecal analysis and identify the most threatening and common parasitic eggs.
10. The student should be able to use and write a dichotomous key.

Sustainability Objectives:

1. The student should be able to be placed randomly in a setting in Wisconsin and have a reasonable idea of what organisms would be present in that setting.
2. The student should have a reasonable understanding of how these organisms can be assayed.

3. The student should have a general awareness of the current body of knowledge specific to this state, as well as, the rather limited amount of current research and assaying being performed.
4. The student should have an understanding of the organisms' natural limits, as well as, limits imposed by human cohabitation (as evidenced by population changes over time, threatened, endangered, and invasive species).
5. The student should have and be able to express a beginning understanding of the inter-relatedness of organisms up to, and especially, including humans.

Academic Policy: If you decide to cheat or engage in other forms of academic dishonesty you will be subject to the Student Academic Disciplinary Procedures as outlined in the Student Disciplinary Code (<http://www.uwosh.edu/dean>).

Schedule:

Wk	Date	Subject
1	9/10	Microscopy, Protozoans
2	9/17	Protozoans, Porifera
3	9/24	Cnidaria
4	10/01	Exam I
5	10/8	Platyhelminthes
6	10/15	Psuedocoelomates
7	10/22	Mollusca
8	10/29	Annelida
9	11/5	Exam II
10	11/12	Arthropoda
11	11/19	Echinodermata/Chordata
12	11/26	Optional Review
13	12/4	Exam III and last week of class!!!
14	12/58	NO CLASS