

Biology 132: Introduction to Animal Behavior/ Fall 2013

Instructor: Dr. Debbie Schlenoff

schlenof@uoregon.edu (Please include "132" or "animal behavior" in subject heading.)

Office: 15A Klamath

Office hours: Wednesdays 10:30-11:30 and by appointment

GTFs:

Lisa May lmay@uoregon.edu

Office Hour: Monday 1-2pm in LISB 229

Neena Leggett neena@uoregon.edu

Office Hour Friday 10:00 in Onyx 360

Course Goals

We will explore behaviors found in a variety of animals and try to understand some of the mechanisms behind them, how they develop, their evolutionary history, and what functions they might serve. Many examples will be used to illustrate concepts in animal behavior and to develop an appreciation for the many interesting things that animals do to survive and reproduce. We will also examine the methods with which scientists study these behaviors. By doing this, you will better understand how science works and become comfortable evaluating scientific information; a skill required by all people whether or not they pursue a career in the sciences.

Recommended Text: Goodenough, J.; McGuire, B. and Wallace, R.; **Perspectives on Animal Behavior** There are copies on 2-hour reserve in the Science library located in Onyx Bridge.

It would be helpful to read (or at least skim) the assigned chapters before coming to class and to then read more carefully those parts relevant to lecture, assignments, and discussion.

Course Format

Lectures (Monday/Wednesday 4:00-5:20 pm, 123 Pacific)

You will be responsible for all material presented in lecture.

The course schedule is tentative and subject to change; adjustments will be announced in class.

Lecture outlines containing the text of the PowerPoint slides are available on Blackboard. Most students have found it useful to print out the outlines before class to take notes on without having to try and write down everything on the slide. Please keep in mind that these are merely outlines for your convenience in taking and organizing notes. They are not meant to serve as a complete set of lecture notes for studying for the exams. *There is a strong positive correlation between attendance in lecture and class grades.*

Occasionally, there are group and writing activities that occur during lecture. It is our expectation that you participate in these activities. Your active involvement promotes understanding of the material and preparation for exam questions.

I appreciate feedback on the lectures. Questions are welcome and encouraged during and after lecture, during office hours, and via e-mail.

Discussion Sections (Thursdays, 5 Klamath)

Participation in discussion sections is a required part of this class and will count toward your final grade. Much of discussion will be devoted to developing and preparing to research and write a project paper. In addition, hands-on activities will allow us to ask questions about animal behavior and design experiments to search for answers. All assignments associated with the project are due in discussion section on the date noted in the syllabus. Students are expected to attend the section in which they are registered.

Grading Evaluation

Midterm Exam 1	21 %
Midterm Exam 2	21%
Final Exam	23%
Term Project Paper	20%
Question Sets	6% (Three HW sets at 2% each; submit through Blackboard)
Discussion Section Assignments	6% (includes project assignments)
Discussion Section Participation	3 % (Hand-outs, attendance, participation)

Exams will include material from the lectures, discussion, and the video clips shown in class. The structure of the **first two Exams** will be mixed format (multiple choice, short answer, short essay). Details will be announced in class. The **Final Exam** will be all multiple choice. Scantrons will be handed out in class; please bring a #2 pencil to all exams.

Make-up Exam Policy: Because this is such a large course, make-ups are **NOT** administered except in the case of a severe medical condition or other extreme documentable emergency. It is your responsibility to contact the instructor as soon as possible and to provide documentation.

Question sets get you thinking about the material and allow you to focus and organize your studies. They serve as study guides and are good preparation for taking the exam. The answers to the Question Sets will be posted on Blackboard after the due date. We recommend you read through these in preparation for the exams.

Question sets will be posted and submitted through Blackboard by the due date noted in the syllabus. Enter your answers in the textbox that appears when you open the assignment link. You may discuss the material with others but *please submit your answers in your own words*. Copying and pasting from the notes or shared documents are a form of plagiarism and will not do much to promote understanding or retention of the material.

Project The Project will involve forming an hypothesis and testing predictions about animals that are easily observed outside of class. Assignments pertaining to the project will be due in discussion section (see below for due dates). A Project Proposal will be due in section and will give you an opportunity to discuss your ideas with your instructors. We will explore ways to find reputable scientific sources and how to write up a scientific research paper. The final project paper (hard copy) will be due in Discussion Section on Week 7 on 11/14 . Information about the project is posted in the Project Folder in Course Documents on Blackboard. Please read these documents carefully and ask if you have any questions.

Assignments include initial project proposal, finalized project sheet, term paper draft for peer review, and reading questions for assigned readings.

Professional Conduct:

Plagiarism will not be tolerated. You are expected to do your own work on homework assignments, projects, and exams. When writing up your homework assignments and papers, you are expected to paraphrase (use your own words). When writing up your project papers, give credit to the sources of your information.

You are encouraged to discuss ideas with each other and to study together, but don't copy someone else's work, or allow them to copy yours. Academic dishonesty is a serious offense. Please refer to the University of Oregon Student Conduct Code by which all students are expected to abide.

Classroom Etiquette:

1. Please arrive on time.
2. Please don't leave early. This is very disruptive to everyone. In turn, I will not lecture beyond 5:20. If you have an unusual circumstance and must leave early, then please sit near the exit so you can leave unobtrusively. A break from lecture to engage in small group work does not signal the end of lecture.
3. Please refrain from engaging in activities that could be distracting to your fellow students.
 - a. We ask that you not converse with your neighbors when someone else is talking (instructor or classmate) as this interferes with the ability of other students to learn.
 - b. Please turn your cell phones off during lecture.
 - c. Please do not use computers during lecture unless it is for the sole purpose of note-taking.
 - d. Please do not pack up your things early as this makes it difficult for students around you to hear the end of the lecture.

If you are having a problem that interferes with your ability to do the work in this class, please tell us about it as soon as you can.

The University of Oregon is working to create inclusive learning environments. Please notify me if there are aspects of the instruction or design of this course that result in barriers to your participation. You may also wish to contact Disability Services in 164 Oregon Hall at 346-1155 or disabsrv@uoregon.edu

TENTATIVE COURSE SCHEDULE: The course schedule below is tentative and subject to change. Additional information will be provided in class or via e-mail and blackboard.

* See Blackboard: Course Documents for instructions on assignments. Each assignment contributes points to your overall grade. Submit to your GTF in discussion section or on Bb as indicated.

** Question Sets posted and submitted on Blackboard: Course Document.

WK	Lecture Topics and Discussion Sections	Assignments
1	9/30 The Study of Animal Behavior. What kinds of questions help us understand behavior and how do we design ways to get answers? 10/2 Natural Selection and Adaptation. How do we explain the evolution of animal behavior? Discussion Sections 10/3: Intro to Project/ Asking questions and posing hypotheses	Read project information on Blackboard*
2	10/7 Genetic Analysis of Behavior. Are there ways to determine whether some behaviors have a genetic basis? 10/9 Types of Learning. How does learning contribute to success in animals? What is the variety of types of learning that we can examine? Discussion Sections 10/10: Meet for Duck Lab at Millrace (<i>corner of Onyx across Franklin Blvd.</i>)	Begin generating ideas for project. Make observations.
3	10/14 Early learning, Imprinting, and Development. How does early experience help shape an animal's behavior throughout its life? 10/16 Biological Rhythms/Migration. Do animals show patterns of behavior? Why do animals migrate? How do they find their way? Discussion Sections 10/17 Discuss Project Ideas. Bring Initial Project Proposal Form.* How to Find Reputable References.	Read about your proposed study animal. Make observations. Fill out initial project proposal form.*
Question Set 1 Due before 11:00 pm, Friday, 10/18		
4	10/21 Foraging Strategies. Tool use. What strategies do animals use to obtain food? How do they balance costs and benefits? 10/23 EXAM 1 Discussion Sections 10/24. Bee hive and bee communication. Change in classroom for today only: Meet in HUE 112. Finalized Project Plan with initial data due Friday 10/25 on Blackboard.	Test your proposal by collecting initial data.* Fill out Finalized Project Sheet for section. Submit on Bb by 10/25 Friday evening*
5	10/28 Anti-predator Strategies How to keep from being someone's dinner. 10/30 Sexual Selection. What adaptations have arisen in animals to attract a mate and compete with rivals? Discussion Sections 10/31. Hermit Crabs. Discuss scientific paper. How to write a scientific paper.	Read scientific paper posted on Blackboard.

6	<p>11/4 Mating Systems. How do mating strategies affect reproductive success? 11/6 Parental Care. Who takes care of the kids?</p> <p>Discussion Sections 11/7: Peer review of Project paper Draft*</p>	<p>Bring in your Term Paper Draft. Include a Data Figure. Incorporate information from at least one peer-reviewed reference.*</p>
7	<p>11/11 Social Groups: What are the Benefits, Costs, and Dynamics of living in social groups? 11/13 The evolution of altruism. Under what conditions does it pay to help others?</p> <p>Discussion Sections 11/14 PROJECT PRESENTATIONS in Section</p>	<p>PROJECT PAPER DUE*</p>
<p>**Question Set 2 Due Friday, 11/15 before 11:00 pm **</p>		
8	<p>Lecture Topics 11/18 EXAM 2 11/20 Conflict and cooperation. Under what circumstances might individuals in a group cooperate?</p> <p>Discussion Sections 11/21: Discussion on animal welfare issues: Animals in industry, research and entertainment.</p>	<p>Assigned readings for discussion on Bb.*</p>
9	<p>11/25 Social Groups: Awareness and Social Intelligence. How aware are animals of others in their groups? How aware are they of their own knowledge? 11/27 Video assignment. No Lecture.</p> <p>No Discussion Sections 5/30 Thanksgiving Day holiday!</p>	<p>Video assignment</p>
10	<p>12/2 The Human Animal: Evolutionary psychology. How do we examine human behavior from an evolutionary perspective? 12/4 Communication.</p> <p>Discussion Sections 12/5 Review</p>	<p>Submit video assignment. Bring questions for review.</p>
<p>**Question Set 3 Due before Friday, 12/6, 11:00 pm. **</p>		
<p>FINAL EXAM: Dec 11, Wednesday, 3:15 pm</p>		