

Biology 160: Animal Biology, Fall 2012

Lecture Days and Time: TRF 10-11 pm rm. A208 SCI (Lab, Sections 5,6 TNR rm. 351)

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OFFICE HOURS: by e-mail appointment

Text: Integrated Principles of Zoology, 13<sup>th</sup> Ed. 2006. Hickman, C.P., L.S. Roberts, A. Larson, H. l'Anson, and D. J. Eisenhour. McGraw Hill. Boston, Massachusetts.

Lab Manual: Available at book store.

Laboratory Schedule: See attached page (handed out in lab).

Lecture Format: Lectures will be in the form of PowerPoint presentations and notes on the board. Presentations will be posted to the D2L site for the course at least 24 hours prior to lecture. It is strongly recommended that you print off a copy of the PowerPoint slides or the note outline for each lecture prior to attending. You will have more time to focus on lecture material if you are simply jotting down side notes on your printed copy of the lecture rather than having to write down all the information on each slide. As the lecture material will follow the text closely, it is also strongly recommended that you read the assigned text material **prior** to coming to the corresponding lecture. The lecture schedule above will be adhered to as strictly as possible although, from time to time, it is possible that we might finish a lecture topic early or one topic might need to be extended into a subsequent lecture. Each lecture will be followed by the posting of a lecture review sheet that can be used as an outline for exam studying.

Examinations & Grades: Lecture exams (**4 of them, 100 points each**) will be multiple-choice format. Nearly all of the questions on lecture exams will be directly associated with a question or statement on one or more of the lecture review items (mentioned above). The laboratory exams (**3 of them, 100 points each**) will be "practicals," emphasizing information associated with actual specimens. There will be 15 laboratory quizzes or attendance opportunities (10 points each). At the end of the semester, the lowest three quiz grades will be dropped leaving a total of **120 points possible from quizzes**. Final grades are based on the percentage of total points (**out of 820**) earned in both lecture and laboratory components. Approximate grade ranges are as follows:

A = 93.4 - 100%	A- = 90 - 93.3 %	
B + = 86.7 - 89.9%	B = 83.4 - 86.6%	B - = 80 - 83.3%
C + = 76.7 - 79.9%	C = 73.4 - 76.6%	C - = 70 - 73.3%
D + = 66.7 - 69.9%	D = 60.0 - 66.6%	
F = < 60%		

If need be, I will reserve the right to invoke a grading curve to more evenly distribute final grades. However, I will never "curve up," (i.e., raise the grading thresholds shown above).

Make-up laboratory quizzes, practicals and lecture exams may be scheduled **in advance** for students with university-approved absences (see UWSP online catalog). If need be, students can also arrange to attend lab in another section as a make-up. This includes practicals as well. **BUT, always** acquire permission to sit in another lab section or attend another practical with me **prior to** attending. Make-up labs and exams will not be identical in format or content to regularly scheduled labs and exams. **NO** make-ups will be scheduled without prior arrangements!

Old exams, lecture notes, and other course materials from prior Biology 160 courses may be available from fellow students but should **NOT** be used as study guides for this course. The primary sources of information for exams are: (a) lecture and laboratory texts, (b) lecture and laboratory notes—particularly review materials, and (c) laboratory specimens and dissections.

**Office hours: I will be available for you to stop by and discuss course matters--office hours are to be announced (check my office door or e-mail me). My office is room 403 TNR.** If I am not in the room, I will make an effort to post a sign on the door as to my exact whereabouts and time of return. In any case, do not immediately leave if I am not in my office when you stop by—wait a little bit as I will certainly be back shortly. I will also be available to meet with you by appointment. Call or e-mail me to set up an appointment to meet in times other than my official office hours. My personal schedule is exceedingly tight. Do not expect me to be in my office beyond my office hours if we have not made prior arrangements to meet!

Strategies to help you do well in the course:

- Attend all labs and lectures—Obviously!
- Download and/or print outlines/powerpoint presentations before attending lectures.
- Ask questions—in lecture, after/before lecture, e-mail me, come to my office hours.
- Get the texts.
- Read the appropriate sections of your text prior to class (or at least prior to the exam)—**DO NOT IGNORE YOUR TEXTS!**
- Review and study all lecture notes, assigned readings, and review materials prior to an exam/practical. Form a study group that meets regularly if that helps.
- Keep up with course materials—**DO NOT TRY TO CRAM IN THIS COURSE!**
- Do not underestimate the explanatory power of a figure in your text.
- Take advantage of the 400 total points you can earn in laboratory. Your entire laboratory manual is merely 100 or so pages long! On any given week your quiz may be derived from 5-8 pages of material! And, all the laboratory material will overlap with lecture materials!

## Lecture Schedule

<u>Lecture</u>	<u>Date</u>	<u>Topic</u>	<u>Reading</u>
Jan ##		Introduction, Syllabus	None
Jan ##		Introduction to Zoology	Chap 1(pp. 2-20)
Jan ##		The Biosphere and Animal Distribution	Chap 37(pp. 786-804)
Jan ##		Animal Ecology	Chap 38(pp. 805-821)
Jan ##		Ecology II/Organic Evolution I	Chap 6 (pp. 102-129)
Jan ##		Organic Evolution II	Chap 6 (pp. 102-129)
Feb ##		The Reproductive Process	Chap 7 (pp. 131-136)
Feb ##		Principles of Development 1	Chap 8 (pp. 151-163)
Feb ##		Principles of Development 2	Chap 8 (pp. 151-163)
Feb ##		Architectural Pattern of an Animal	Chap 9 (pp. 178-190)
Feb ##		Review	
Feb 22		<b>EXAM 1 (100 Points)</b>	
Feb ##		Classification and Phylogeny of Animals	Chap 10(pp. 193-208)
Feb ##		Protozoans, Poriferans, & Diploblasts	Chaps 11,12,13 (pp. 210-280)
Feb ##		Protostomes 1: Acoelomates	Chap 14 (pp.282-303)
Mar ##		Protostomes 2: Ecdysozoa	TBA
Mar ##		Protostomes 3: Lophotrochozoa	TBA
Mar ##		Deuterostomes & Early Chordate Evolution	TBA
Mar ##		Vertebrates	TBA
Mar ##		Review	
Mar 14		<b>EXAM 2 (100 Points)</b>	
Mar ##		<b>SPRING BREAK</b>	
Mar ##		<b>SPRING BREAK</b>	
Mar ##		<b>SPRING BREAK</b>	
Mar ##		The Origin and Chemistry of Life	Chap 2(pp. 21-35)
Mar ##		Cells as Units of Life	Chap 3(pp. 36-55)
Mar ##		Mitosis & Meiosis	TBA
Apr ##		Cellular Metabolism	Chap 4(pp. 57-72)
Apr ##		Mendelian Genetics	Chap 5(pp. 74-88)
Apr ##		Gene Theory	Chap 5(pp. 88-99)
Apr ##		Population Genetics	Chap 6(pp.120-129)
Apr ##		The Reproductive Process	Chap 7(pp.136-148)
Apr ##		Mechanisms of Development	Chap 8(pp. 163-175)
Apr ##		Review	
Apr 18		<b>EXAM 3 (100 Points)</b>	
Apr ##		Support Protection and Movement	Chap 29(pp. 626-646)
Apr ##		Homeostasis	Chap 30(pp. 648-667)
Apr ##		<b>THANKSGIVING BREAK</b>	
Apr ##		<b>THANKSGIVING BREAK</b>	
May ##		Internal Fluids and Respiration	Chap 31(pp. 668-689)
May ##		Digestion and Nutrition	Chap 32(pp. 690-707)
May ##		Nervous Coordination	Chap 33(pp.708-734)
May ##		Chemical Coordination	Chap 34(pp. 735-751)
May ##		Immunity	Chap 35(pp. 752-764)
May ##		Overflow TBA	
May ##		Overflow TBA	

**FINAL EXAM : Tues May 15th, 5-7pm, (NOT COMPREHENSIVE)**