

Biology 160: Animal Biology, Spring 2018, TNR 170

Lecture Days and Time: MTR 4-5pm

Instructor: Justin Sipiorski

TNR Room 403

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715-346-2275 (not reliable, please e-mail!)

OFFICE HOURS: **MT** 12:15-1pm (TNR 351)

**W** 1:30-2:30 pm, **R** 1-2 (TNR 403, 401, 412, 414--**Check all of these rooms!**)

Text: Integrated Principles of Zoology, 15<sup>th</sup> Ed. 2008. Hickman, C.P., L.S. Roberts, S. L. Keen, D. J. Eisenhour, A. Larson, and H. I'Anson. McGraw Hill. Boston, Massachusetts.

Lab Manuals: Available at book store.

Laboratory Schedule: (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/true-and-false/matching format with a short essay section. Nearly all of the questions on lecture exams will be directly associated with a question or statement on one or more of the lecture/chapter review items (mentioned above). There will also be a 50-point fact-finding assignment handed out about week five, regarding the animal phyla that we will be discussing in lab and lecture in the third quarter of the semester. In lab, there are a total of **300 points possible from quizzes, activities, attendance and practicals**. There are bonus points/extra credit scattered throughout the semester (usually about 15points worth, 2% of your total points). Final grades are based on the percentage of total points (**out of 750ish**) 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 Monday through Thursday during my office hours. Otherwise we can make an appointment. 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 (almost always the nearby rooms 400, 401, 410, 412, 414). 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. **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.
- Tutoring services are great! Take advantage of them!
- Take advantage of the 300 total points you can earn in laboratory. Your entire laboratory manual is merely 100-or-so pages long! On any given week your quiz or activity may be derived from 5-8 pages of material! And, all the laboratory material will overlap with lecture materials!

Lecture Schedule (subject to slight changes)

<u>Date</u>	<u>Topic</u>	<u>Reading</u>
Wk 1	Introduction, Syllabus	None
Wk 1	Introduction to Zoology	Chap 1(pp.)
Wk 1	Physics & Chemistry of Life	Chap 2(ALL pp.)
Wk 2	Physics & Chemistry of Life	Chap 2/5(pp.)
Wk 2	Cytoplasm and Plasma Membrane	Chap 3 (ALL pp.)
Wk 2	The Nucleus and Mitosis	Chap 3 (ALL pp.)
Wk 3	Mitosis	Chap 3 (ALL pp.)
Wk 3	Genes, Transcription and Translation	Chap 5 (pp.)
Wk 3	Enzymes/Gene Expression	Chap 4 (pp.)
Wk 4	Cellular Metabolism	Chap 4 (ALL pp.)
Wk 4	Mendel's Laws and Meiosis	Chap 5 (pp.)
Wk 4	Meiosis and Inheritance	Chap 5(pp.)
<b>Feb 15</b>	<b>EXAM 1 (100 Points) TNR 170 4-5pm</b>	
Wk 5	Intro to Ecology	Chap 38(ALL pp.)
Wk 5	Intro to Ecology /Evolutionary Biology	Chap 38/6(pp.)
Wk 6	Evolutionary Biology	Chap 6(pp.)
Wk 6	Speciation/Species Concepts	Chap 10 ALL
Wk 6	Classification and Phylogeny	Chap 10 ALL
Wk 7	Phylogenetics	Chap 10 ALL
Wk 7	Developmental Biology	Chap 8 ALL
Wk 7	Developmental Biology	Chap 8 ALL
Wk 8	Developmental Biology	Chap 8 ALL
Wk 8	Animal Body Plans/Reproductive modes	Chap 7,9 (pp.)
<b>Mar 15</b>	<b>EXAM 2 (100 Points) TNR 170 4-5pm</b>	
Wk 9	Intro to Animal Diversity	TBA
Wk 9	Intro to Animal Diversity	TBA
Wk 9	Intro to Animal Diversity	TBA
Mar 26	<b>SPRING BREAK</b>	
Mar 27	<b>SPRING BREAK</b>	
Mar 29	<b>SPRING BREAK</b>	
Wk 10	Intro to Animal Diversity	TBA
Wk 10	Human Reproduction	Chap 7(pp.)
Wk 10	Support Protection and Movement	Chap 29(pp.)
Wk 11	Homeostasis	Chap 30(pp.)
Wk 11	Homeostasis	Chap 30(pp.)
Wk 11	Internal Fluids and Respiration	Chap 31(pp.)
<b>Apr 19</b>	<b>EXAM 3 (100 Points) TNR 170 4-5pm</b>	
Wk 12	Internal Fluids and Respiration	Chap 31(pp.)
Wk 12	Digestion and Nutrition	Chap 32(pp.)
Wk 13	Digestion and Nutrition	Chap 32(pp.)
Wk 13	Nervous Coordination	Chap 33(pp.)
Wk 13	Chemical Coordination	Chap 34(pp.)
Wk 14	Immunity	Chap 35(pp.)
Wk 14	Overflow, TBD	
Wk 14	Overflow, TBD	
Wk 15	Overflow, TBD	
Wk 15	Overflow, TBD	Wk 15 Overflow, TBD

**FINAL EXAM : Tues May. 15, 17:00-19:00pm, TNR170 (ONLY A SMALL, BONUS, COMPREHENSIVE SECTION)**