

**BIOLOGY 160** (Sections 06L1, 06L2, 06L3, **06L4**)  
*Introduction to Animal Biology - Syllabus - Fall 2017*

**Instructor:** Dr. Robert C. Jadin  
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**Office Hours:** Monday 12:00-1:00 p.m.  
 Thursday 11:00-12:00 p.m.  
 Or by appointment. ☺

**Required textbook:** *Biology* by Urry et al. 11<sup>th</sup> Edition (Bookstore rental)

**Required lab manuals:** *Introduction to Animal Biology*; (\$12.68) and *The White Rat*; (\$3.79)  
 (Both available in Bookstore)

**Optional lab reference:** *A Photographic Atlas for the Zoological Laboratory*; (bookstore - \$44.50)

**The purchase of a dissecting kit, (\$10.50) and goggles, (\$4.17) from the bookstore is also required.**

MEETINGS	MEETING TIMES	OPEN LAB HOURS
Lecture	M, W, F 11:00-11:50 a.m. TNR 170	<i>Final Exam: Wed., Dec 21, 2:45 pm – 4:45 pm</i>
Lab 06L1	Tues. 11:00-1:50 p.m. (TNR 355)	Tues. – Thur. 6:00-8:00 pm
Lab 06L2	Wed. 12:00-2:50 p.m. (TNR 355)	Tues. – Thur. 6:00-8:00 pm
Lab 06L3 Lab 06L4	Thurs. 12:00-2:50 p.m. (TNR 355) Tues. 11:00-1:50 p.m. (TNR 351)	Tues. – Thur. 6:00-8:00 pm

**Course Objective:** The objective of this course is to introduce students to the amazing and diverse world of animals. The exploration of animals begins by focusing on structure and function at the chemical, subcellular and cellular levels, continuing with an examination of genetics and mechanisms of reproduction. From there, students will be introduced to the diversity of forms and functions in various animal phyla.

**Course Requirements:** This course consists of three 50-minute lectures and one three-hour lab per week. You will be required to take four lecture exams worth 100 points each, three lab practical exams and several small quizzes and other assignments.

**Grading:** Points for this course will be assigned as follows:

Four lecture exams (100 points each)	= 400 points
Assignments/quizzes (5-10 points each)	= 100 points
Lab grade	= 300 points
<b>Total</b>	<b>= 800 points</b>

Final grades will be assigned based on the following percentages:

A	= ≥93%	B-	= 80-82%	D+	= 67-69%
A-	= 90-92%	C+	= 77-79%	D	= 60-66%
B+	= 87-89%	C	= 73-76%	F	= < 60%
B	= 83-86%	C-	= 70-72%		

- Attendance:** Attendance for lecture and lab is mandatory. Past experience has shown there is usually a strong positive correlation between the amount of time a student spends in class and her/his final grade. It is **your** responsibility to get the notes for any missed classes. Make-up exams will be provided only in the case of serious illness (requiring a doctor's care), or the death of a relative.
- E-mail:** UWSP students are encouraged to check their e-mail regularly (5+ times per week) for information from the university and/or instructors. If you are using an e-mail account other than your campus account to contact me, be sure your full name is included in the message.
- Academic Conduct:** All students are expected to follow the ethical practices of neither giving nor receiving any unauthorized assistance on all of their work in this class. Additionally, all students are expected to not divulge the nature or content of any questions or answers on exams to any other student or groups of students. If there are suspected violations of academic misconduct, as defined by the UWSP Chapter 14.03(1) code, then the Chapter 14 policies and procedures will be invoked. See web page at <http://www.uwsp.edu/admin/stuaffairs/rights/rightsChap14.pdf> for details. Any student that removes an exam from the classroom may be given a failing grade for the course.
- Electronic Devices:** Cell phones should be ***turned off*** and not be displayed during a class, lab, or exam. No other communication or musical devices are allowed. No video or audio recording of lectures is permitted without the prior written authorization from the instructor.
- Extra help:** Tutors are available to help students with lecture and lab material. Interested students are encouraged to contact the Tutoring-Learning Center. (LRC, room 018)
- Study Aids:** Supplemental handouts may be provided during particular lectures. Lecture PowerPoint presentations (in a condensed format) will be made available to registered students through the course link in *Desire to Learn* (D2L). Students must recognize the content of these files **cannot** completely replace regular class attendance.
- Note:** This is a tentative syllabus. The instructor reserves the right to make amendments to this document. Also, lectures and course materials may **not** be distributed or posted in any on-line format without permission from the instructor.

BIO 160 Zoology Schedule

Date	Topic	Chapters
Sept. 4	<b>Labor Day! – No School</b>	
6	Introduction to Zoology	
8	Principles of Zoology	
Sept. 11	Science vs. Pseudoscience	
13	Peer-review	
15	Chemical context of life/Water and life	2 & 3
Sept. 18	Structure and function of large biological molecules	5
20	A tour of the cell	6
22	Membrane structure and function	7
Sept. 25	Cellular respiration	9
27	The Cell Cycle - Mitosis and cancer	12
29	Meiosis and sexual life cycles	13
Oct. 2	Mendelian and the gene idea	14
4	Gene expression: From gene to protein - Central Dogma	17
6	Exam review or catch up	
Oct. 9	<b>Exam 1</b>	
11	Descent with modification: A Darwinian view of life	22
13	The evolution of populations	23
Oct. 16	The origin of species	24
18	Phylogeny and the Tree of life (and classification)	26
20	Parasites – guest lecture Dr. Orlofske	
Oct. 23	An overview of animal diversity	32
25	An introduction to invertebrates	33
27	Arthropoda – Crustacea and Mollusca	
Oct. 30	Arthropoda – Arachnida, Insecta and Echinodermata	
Nov. 1	<i>Exam review or catch up</i>	
3	<b>Exam 2</b>	
Nov. 6	Basic principles of animal form and function	40
8	Animal nutrition; <b><i>Common Animal Lab Exam</i></b>	41
10	The immune system	43
Nov. 13	Animal reproduction	46
15	Animal development	47
17	Introduction to ecology and the biosphere	52
Nov. 20	Population ecology	53
22	Community ecology	54
24	<b>Thanksgiving break – No School</b>	

Nov. 27	Conservation biology and global change	56
29	<i>Exam review or catch up</i>	
Dec. 1	<b>Exam 3</b>	
Dec. 4	Origin and evolution of vertebrates	34
6	Chondrichthyes and Osteichthyes; <b><i>Invertebrate Lab Exam</i></b>	
8	Amphibians	
Dec. 11	Reptiles	
13	Birds and Mammals; <b><i>Rat Lab Exam</i></b>	
15	<i>Final exam review or catch up</i>	
Dec. 21	<b>Final Exam (cumulative)</b> - Wednesday 2:45–4:45 p.m. TNR 170	

### **Lab Syllabus**

Grading Scale: **Total possible lab points = 300**

Breakdown of Points are as follows:

**Common Animal Talk** = 20 points

**Common Animal Exam** = 50 points (lab practical)

**Invertebrate Exam** = 50 points (lab practical)

**Rat Exam** = 50 points (lab practical)

**Lab Attendance** = 130 points (based on 13 labs attended out of 14 labs starting week II)

**TOTAL LAB POINTS** = 300 points

**LAB EXAM DATES: At the start of class** during your section's lab day - - these practical laboratory exams **cannot** be missed!!! Get these dates put on your calendars **NOW!!!**

**Common Animal Exam** will include questions from each of the previous labs on (Microscopy, Diffusion and Osmosis, Enzyme, and Metabolism)

Make sure you exchange e-mails with your lab partner! If you do miss class for some reason you will have a person to e-mail for notes from lab.