ZOOL 1010 ANIMAL BIOLOGY: COURSE SYLLABUS
Lecture Time: 8:30-9:20 AM (M-W-F): **Location:** Room 130 Lind Lecture (LL)

Instructor: Dr. Robert Okazaki
Office: 405M Science Lab
Phone: 626-6166
Email: rokazaki@weber.edu
SI: Weston Wells

Office Hours: Mon. 1-2 PM; Tues: 8:30-9:30 AM;
Fri: 9:20-10:20 AM (or by appointment)
Zoology Office: 801-626-6165 **FAX:** 801-626-7445
Faculty Web Site: http://faculty.weber.edu/rokazaki
(Use Internet Explorer)

Text: "Hickman, Roberts, Keen, Larson & Eisenhour. ***Animal Diversity 5th (2009) or 6th Edition (2011)***. McGraw-Hill"

Course overview and objectives: This course is a survey of the animal kingdom following the evolutionary development from unicellular sponges to multicellular invertebrates and ending in mammalian vertebrates. This course will explore how animals evolved, how they function, and how they interact with the environment. Because zoology is a "**content-based**" science involving much factual knowledge, the student will be required to strongly commit adequate time for the reading of all material and fulfilling all assignments. The objective of this course is to provide the student with an appreciation of the diversity, evolution, ecological interrelationships of the animal kingdom and their importance to our planet earth.

Learning Outcomes: (1) **Levels of organization**: All life shares an organization that is based on molecules and cells & extends to organisms and ecosystems; (2) **Metabolism & homeostasis**: Living things obtain & use energy, & maintain homeostasis via organized chemical reactions known as metabolism; (3) **Genetics & evolution**: Shared genetic processes & evolution by natural selection are universal features of all life; (4) **Ecological interactions**: All organisms, including humans, interact with their environment & other living organisms.

Evaluation: Total of 800 points will be divided as follow:
6 semester exams (100 pts each) & final exam (100 pts)
Service-Learning Project (100 pts)

Exams will be multiple choice in a chi-tester format. No make-up exams will be given. A student with a valid (e.g. medical) excuse will only have the scores from the tests taken to be used in the final calculation of the grade. Students missing exams without a valid excuse will be assigned 0 points.

Grading: Based on the percentages of the 800 total points

A: 93-100	A-: 90-92	B+: 87-89	B: 83-86	B-: 80-82	C+: 77-79
C: 73-76	C-: 70-72	D+: 67-69	D: 63-66	D-: 60-62	E: <60

Attendance: Exams will be based upon the lecture material and the reading assignments. Attendance will be crucial to ensure success in the course.

Academic Honesty: Academic misconduct will not be tolerated during the exams and will lead to 0 points. Study groups are encouraged to help stimulate an active learning process.

"Any student requiring accommodations or services due to a disability must contact Services for Student with Disabilities (SSD) in Room 181 of the Student Service Center. SSD can also arrange to provide course materials (including this syllabus) in alternative formats if necessary."

Tentative Reading Schedule Spring 2013

Week #	Topics	Chapter (pages)*
1	Science of Zoology, Evolution of Animal Diversity	1
2	Animal Ecology	2
3	Animal Architecture	3
4	Sponges Phylum Porifera & Radiate Animals Phylum Cnidarians and Ctenophores	6,7
	(Exam 1: Chapters 1, 2, 3)	
5	Acoelomate Bilateral Animals Flatworms & Enigmatic Ribbon Worms	8 & 9
6	Pseudocoelomates (Roundworms) & Segmented Worms Annelids, Including Pogonophorans	12 & 11
	(Exam 2: Chapters 6 & 7)	
7	Molluscs	10
8	Arthropods	13
	(Exam 3: Chapters 8, 12 & 11)	
9	Echinoderms	14
10	Vertebrate Beginnings The Chordates	15
	(Exam 4: Chapters 10, 13)	
	Spring Break	
11	Fishes	16
	(Exam 5: Chapters 14, 15)	
12	Early Tetrapods & Modern Amphibians Amniote Origins & Reptilian Groups	17 & 18
13	Birds	19
	(**Exam 6: Chapters 16, 17 & 18)**	
14	Mammals	20
	Final Exam: Chapters 19 & 20	**April 24**