

BIOLOGY 1113 (L01-L06) ZOOLOGY LABORATORY
SRSU SPRING 2015 SYLLABUS

Lab Room: WSB 111

Times: Tuesday: 3:00-5:00

Wednesday: 1:00 – 2:50 3:00 – 4:50 7:00 – 8:50

Thursday: 2:00 – 3:50 4:00 – 5:50

Lab Instructors: Robert LeBlanc Office hours: TBA Office: WSB 214
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Course description: This class provides a general survey of the animal kingdom which considers the fundamentals of biological facts, laws, and principals as they apply to animals and the structures and functions of the organs and systems of representative animals. Specific topics are listed below.

Required Manual: Smith, David G. 2002. *Exercises for the Zoology Laboratory*. 3rd Edition. Morton Publishing Co., Englewood, Colorado.

Course objectives:

1. Provide a broad overview and appreciation of animal diversity.
2. Develop an understanding of the role of evolutionary theory and its relation to animal diversity.
3. Explore the physical, morphological, and physiological characteristics of animals.
4. Develop an understanding of basic genetics and the role of genetics in natural selection.
5. Enhance critical thinking skills.

Attendance: Students missing more than three labs will be dropped from the class as per university policy and receive an F in the course. Arrangements for excused absences should be made **in advance**. Exams and quizzes missed for any reason must be made up within **one** week of the originally scheduled date. There are no exceptions!

Grading: Lab grades will be based on a total of 200 possible points. There will be three exams, each worth a maximum of 50 points. There will be six quizzes, worth 5 points each (2 lowest dropped). There will be one written lab report worth 30 points.

Lab Report: This assignment will be submitted via Blackboard and checked with plagiarism detection software on a match percentage system. If you submit work that is not your own (matching above 20%), you will receive an F for the assignment, and possibly face disciplinary action. **Zero tolerance.**

Lab etiquette: Please observe the following rules during the lab.

1. Attend lab. Pay attention. Do your assignments.
2. When in doubt, ask. **Communication is key!** This guideline applies to lab protocol, quiz or exam questions, assignments, and life in general.
3. Please be on time. Quizzes will be given at the beginning of each lab and cannot be made up if you are absent or late.
4. Please silence/turn off cell phones.
5. No food, drink, or tobacco use in class.

Dissections: Students are expected to display proper laboratory safety and dissecting techniques during dissection days. If you are not comfortable with dissections or handling organisms speak to instructors for alternatives.

This lab is scheduled to dissect the follow organisms:

1. Nematoda: pig roundworm
2. Mollusca: freshwater mussel
3. Annelida: earthworm
4. Arthropoda: crayfish
5. Arthropoda: grasshopper
6. Echinodermata: sea star
7. Osteichthyes: perch
8. Mammalia: rat

Students with disabilities will be provided with reasonable accommodations. If you wish to request such accommodations because of physical, mental, or learning disability, please contact the ADA coordinator for Program Accessibility at 837-8203 in FH 112.

TENTATIVE LABORATORY SCHEDULE

Date	Topic	Lab Manual Chapter(s)
Jan 28, 29	Introduction, microscopes, lab techniques, wet mounts, cells, and tissues	1, 2
Feb 04, 05	Reproduction & Development	3
Feb 11, 12	Animal-like Protists	4
Feb 18, 19	Porifera and Cnidaria	5, 6
Feb 25, 26	Lab Practical #1	
Mar 04, 05	Platyhelminthes; Intro to Planarian Project	7
Mar 11, 12	Mollusca	8
Mar 18, 19	NO LABS – SPRING BREAK	
Mar 25, 26	Annelida and Nematoda	9, 10
Apr 01, 02	Arthropoda and Echinodermata	11, 12
Apr 08, 09	Lab Practical #2	
Apr 15, 16	Chordata and Actinopterygii	13, 14
Friday, April 17	PLANARIAN REPORT DUE BY 5:00 PM!	
Apr 22, 23	Amphibia and Reptilia	15, 16
Apr 29, 30	Aves and Mammalia	17, 18
May 06	All sections to take Lab Practical #3 on <u>Wednesday, May 6th</u>!	