

**BIOLOGY 1113 (L01-L05) ZOOLOGY LABORATORY
SRSU FALL 2018 SYLLABUS**

Lab Room: WSB 111
Lab Section/Time: Wednesday: L01 1:00 – 2:50 L02 3:00 – 4:50 L03 7:00 – 8:50
Thursday: L04 2:00 – 3:50 L05 4:00 – 5:50
Lab instructors: Carmen Nored: Office hours in WSB 214: M 1-3; F 10-12
Email: cmn17lf@sulross.edu
Phone: 512-228-2595 (text preferred)
Leah Bakewell : Office hours in WSB 214: M 12:30-2, W 5-6, R 11-12:30
Email: lab18wm@sulross.edu
Phone: 810-705-0500

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 per university policy and receive an F in the course. Arrangements for excused absences should be made **in advance**. Students may attend an alternate lab section occurring in the same week on a case-by-case basis if space allows and if approved beforehand. Lab practicals and dissections CANNOT be made up.

Grading: The table below illustrates the grading for this course.

3 Lab practicals @ 100 pts each	300
6 Quizzes @ 10 pts each (drop lowest)	50
Participation/Lab assignments @ 10 pts/lab	100
<u>1 Written Lab Report</u>	<u>100</u>
Total Credit	550 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. **We have zero tolerance for plagiarism.** A separate handout will be provided with further details for this project later in the course.

Lab guidelines:

1. Attend lab every week. Plan to participate and ask questions. You will receive 10 points for each lab that you attend. Simple attendance and participation compromises 18% of your final grade.
2. Be on time. Relatively easy quizzes are given at the beginning of each lab to ensure timeliness for class. These quizzes constitute an additional 9% of your total grade and cannot be made up if you are late (greater than 5 minutes past lab start time) or have an unexcused absence.
3. Silence all cell phones. You are encouraged to photograph—and/or draw—specimens for later study, but other cell phone use within the classroom is prohibited.
4. Check Blackboard before you arrive for lab for any announcements or handouts we post. Some of these may need to be printed before you come to class.
5. Bring your lab manual (listed above), paper, pen and/or pencil, handouts, and any questions you may have to lab every week. Be prepared to utilize your time in lab wisely. The lab practical exams draw directly from the material presented in lab, so steadfast attendance each week is critical to your ultimate success in this course. Lab practical exams constitute over 50% of your final grade.
6. We will explain more about the written lab report later in the semester. We expect this assignment to be both fun and challenging. You will have sufficient time to complete the report if you plan accordingly.
7. Our scheduled office hours are posted in this syllabus, but we are available by appointment as well. Simply call or text and we will make every effort to accommodate you.

Dissections: Students are expected to display proper laboratory safety and dissecting techniques during dissection days. Dissections are an integral tool of biological study and are therefore mandatory for all students. These dissections CANNOT be made up. You and your lab partner(s) can negotiate specific tasks during dissections, but each team member must participate fully in the process.

Expect to dissect the follow organisms in this lab:

1. Nematoda: pig roundworm
2. Mollusca: freshwater mussel
3. Annelida: earthworm
4. Arthropoda: crayfish
5. Arthropoda: grasshopper
6. Echinodermata: sea star

7. Actinopterygii: 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	Chapter(s)
Sep 5, Sep 6	Introduction, microscopes, lab techniques, wet mounts, animal-like Protists	1, 2, 4
Sep 12, 13	Porifera, Ctenophora, and Cnidaria	5, 6
Sep 19, 20	Platyhelminthes; Introduce Planarian Project	7
Sep 26, 27	Lab Practical #1	
Oct 3, 4	Mollusca	9
Oct 10, 11	Annelida and Nematoda	8, 10
Oct 17, 18	Arthropoda and Echinodermata	11, 12
Oct 24, 25	Lab Practical #2	
Oct 31, Nov 1	Chordata and Actinopterygii	13, 14

Nov 7, 8	Amphibia and Reptilia ***Planarian Report due Friday, Nov 16th by midnight***	15, 16
Nov 14, 15	Aves and Mammalia	17, 18
Nov 21, 22	NO LABS- Thanksgiving	
Nov. 28, 29	Lab Practical #3	