

THE UNIVERSITY OF TEXAS AT EL PASO
COLLEGE OF SCIENCE
DEPARTMENT OF BIOLOGICAL SCIENCES

Zoology 4181
(Vertebrate Physiology Methods Laboratory)
Spring 2020 Syllabus

Laboratory Coordinator: Dr. Zaineb Al-Dahwi

Office: Biology 104

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Office hours: Mondays - Thursdays: 10:30 am – 11:30 am or by Appointment

COURSE PERIOD: Tuesday January 21, 2020 - Thursday May 07, 2020

PREREQUISITE COURSES: Chem 1408 and Biol 1306-1108

REQUIRED LABORATORY MATERIAL:

1. **Lab Tutor Experiments Booklet** available at the **University Print Shop, Hertzog Building**
2. **STUDENT RESPIRATORY KIT** (Mouth Piece, Nose Clip, and Filter) available at the **UTEP BOOKSTORE. Each GROUP Should Purchase ONE Respiratory Kit.**
3. **Lab coat and goggles** should be used during dissection exercises in the laboratory

GRADING POLICY:

Grades will be based on attendance, quizzes, lab reports, research paper, and final exam.

Grade Distribution:

Attendance and Participation	10%
Lab Reports (from Lab Tutor Experiment Booklet)	20%
Quizzes	20%
Research Paper	20%
Final Exam	30%

LAB REPORTS: The lab reports for the exercises from the Lab Tutor Experiment Booklet are due in the first 30 minutes of the **following** lab period.

QUIZZES: There will be a quiz **every two weeks** starting the week of **Monday February 17th, 2020**. The quiz (**taken by individual students**) will include material covered in the **previous two weeks** and will be given in the first 20 minutes of the lab. **The lowest quiz**

grade will be dropped in calculating the final lab average.

RESEARCH PAPER: Assignment of the research paper as an individual or group paper will be at the discretion of the Lab Instructor. Refer to the Lab Schedule for the due date of the research paper. **Late submissions will NOT be accepted.**

The **Final Lab Grade** will be assigned based on the following grading scale:
A=90-100% B=80-89% C=70-79% D=60-69% F=59-0%

GRADE DISPUTES: All grade disputes must be brought to the attention of the Lab Instructor within one week of grade assignment. All grade disputes must be settled by May 7th, 2020. Grade disputes unresolved by the Lab Instructor must be discussed with the Lab Coordinator (Dr. Zaineb Al-Dahwi).

MAKE UP POLICY: No make-up will be given to any quiz during the semester or to the final exam. If a **quiz** is missed, it will be considered the lowest quiz grade and will be dropped in calculating the final lab grade.

No Make-up will be allowed for missed lab exercises. Assignments of the missed lab exercise will NOT be accepted. **No student will be allowed to make-up the lab exercise in another Lab section.**

ATTENDANCE POLICY: Full credit for class participation requires no absences and active contribution to all lab work and assignments. Absences will be excused only for official university activities, or for extreme health or personal emergencies documented in writing. **STUDENTS ATTENDING LAB SECTIONS OTHER THAN THE ONE IN WHICH THEY ARE ENROLLED WILL BE RECEIVING A FAILING GRADE (= F) AS A FINAL AVERAGE**

LABORATORY REGULATIONS: **No food or drinks are allowed in the laboratory.**
Shorts, open-toed shoes and flip flops are strictly prohibited while working in UTEP laboratories.

ACADEMIC INTEGRITY: It is the policy of the University of Texas at El Paso that academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All students involved in academic dishonesty will be disciplined in accordance with the University regulations and procedures. For further information, please refer to UTEP's Handbook of Operating Procedures, Chapter 1: Student Conduct and Discipline at <http://admin.utep.edu/Default.aspx?PageContentID=2084&tabid=30292>. Also, please see Plagiarism and Scholastic Integrity webpage, at UTEP's Library: <http://libraryweb.utep.edu/research/plagiarism.php>.

CIVILITY STATEMENT: Students are encouraged to actively participate in all course activities. However, during lectures and labs, use of cell phones, talking, texting, and other disruptive activities are **unacceptable**. **All cell phones must be placed in silent mode**. Laptops, iPads, smart phones etc. are allowed in class only as a resource for class material. These devices **cannot** be used for any activity other than those related to the class session. Taking pictures by any means in the class is strictly forbidden.

ACCOMMODATIONS AND SUPPORT SERVICES: If a student has or suspects he/she has a disability and needs classroom accommodations, he/she should contact the Center for Accommodations and Support Services (CASS) at 747-5148, or by e-mail to cass@utep.edu, or visit their office located at the UTEP Union East, Room 106. For additional information, please visit the CASS website at www.utep.edu/CASS. ***CASS staff are the only individuals who can validate and if need be, authorize accommodations for students with disabilities.*** Students registered with CASS are responsible for **presenting** any CASS accommodation letters and instructions to the instructor.

MILITARY STATEMENT: If you are a military student with the potential of being called to military service and/or training during the course of the semester, you are encouraged to contact the instructor by phone and/or e-mail at the earliest convenience.

LAB INSTRUCTOR CONTACT INFORMATION:

Name:

E-mail address:

LAB SCHEDULE:

<u>Lab</u>	<u>Week of</u>	<u>Topic</u>
1	Jan. 27	Introduction and Lab Safety
2	Feb. 3	Cell Transport Mechanisms and Permeability: Physio-EX
3	Feb. 10	Endocrine System Physiology: Physio-EX
4	Feb. 17	Cell Transport Mechanisms and Permeability: Lab Experiment
5	Feb. 24	Reflexes and Reaction Times: Lab Tutor Experiment
6	Mar. 2	Earthworm Nerve Action Potentials: Lab Tutor Experiment

7	Mar. 9	Sensory Physiology: Lab Tutor Experiment and “How to read a research paper”
8	Mar. 16	Spring Break (No Classes)
9	Mar. 23	Gross Anatomy of the Brain and Cranial Nerves: Sheep Brain Dissection
10	Mar. 30	Electroencephalography (EEG): Lab Tutor Experiment
11	Apr. 6	Electromyography (EMG): Lab Tutor Experiment
12	Apr. 13	Electrocardiography (ECG) and Heart Sounds: Lab Tutor Experiment
13	Apr. 20	Respiratory Air Flow and Volume: Lab Tutor Experiment and Research Paper Due Date
14	Apr. 27	Urine Analysis Experiment and Renal System Physiology: Physio-EX
15	May 4	Final Exam

Important Dates:

March 27th, 2020: Course Drop Deadline: **Last day to drop the lab with automatic “W”.**

NOTE: Faculty-initiated drops will **NOT** be processed after March 27th, 2020

March 27th, 2020: Cesar Chavez Day Observance (**No Classes**)

April 10th, 2020: Spring Study Day/Good Friday (**No Classes**)

May 8th, 2020: Dead Day (**No Classes**)