

BIOLOGY 4510 LAB
ANIMAL PHYSIOLOGY LABORATORY
Spring 2026

Instructor Name: _____ **Phone:** _____
Office: _____ **E-mail address:** _____
Office hours: _____ **Section #:** _____
(Please record the information your instructor gives you in the space above. Save this sheet for the remainder of the semester).

Course Description : Experimental studies of physiological function in animals. Emphasis on energetics, membrane transport, neurophysiology, cardiovascular, respiratory and muscle function.

Lab Manual

UNT Animal Physiology Lab Manual is available on Canvas.

Prerequisites

Concurrent or previous enrollment in either BIOL 3800 or BIOL 4505.

Attendance & Participation

Attendance in lab is mandatory. **NOTE:** Students may change the lab section in which they are registered by using the online registration site up to the scheduled add/drop deadline (4:30 PM on 16 Jan 2026). After this date, students must attend the lab in which they are registered and may not attend a different section. The lab supervisor absolutely will not sign transfer forms after this date. Failure to attend 4 or more lab sessions will result in the student receiving an F in the lab course. If a student anticipates missing a lab due to conflict with a University sponsored activity, the student must inform the Lab Supervisor in advance by emailing nathaniel.peterson@unt.edu. A letter from the student's department may be required. Students who miss an exam or quiz for reasons not involving a University sponsored activity will not be allowed to make up these exams or quizzes. Since exams and quizzes are taken online, and are available for at least one week, make ups are not allowed. Lab report submissions are final. Students will not be allowed to resubmit a lab report after the due date. Any lab reports submitted after the due date will be subject to a 4-point penalty per day. After 12 days, late submissions will not be graded.

Academic Misconduct

Any suspicion of cheating will be referred to the Dean of Students. Plagiarism will not be tolerated. Each student is expected to complete an original lab report.

Disability Accommodations

The University of North Texas makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information see the Office of Disability Accommodation website at <http://www.unt.edu/oda>. You may also contact them by phone at 940.565.4323.

Miscellaneous Notes are due at the beginning of class. There will be four points per day deducted for all late reports.

2. No make ups are allowed. Students who miss class will not be allowed to attend a different lab section.

There is absolutely NO EXTRA CREDIT. DON'T ASK.

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<u>Week</u>	<u>Topic</u>	<u>Quizzes</u>
12 Jan	COURSE INFORMATION, SCIENTIFIC METHOD, STATISTICS & EXP. DESIGN	QUIZ NA
19 Jan	MLK DAY – NO LABS	
26 Jan	DATA PRESENTATION; INTRO TO Lt LABS	QUIZ 1
2 Feb	OSMOLARITY	QUIZ 2
9 Feb	ANIMAL METABOLISM	LAB REPORT 1 ASSIGNED
16 Feb	EARTHWORM ACTION POTENTIAL	QUIZ 3
23 Feb	COCKROACH SENSORY NERVE FROG NERVE	QUIZ 4 LAB REPORT 1 DUE
2 Mar	VISION	QUIZ 5
9 Mar	SPRING BREAK – NO CLASSES	
16 Mar	MIDTERM EXAM	
23 Mar	HUMAN SKELETAL MUSCLE	QUIZ 6
30 Mar	FROG SKELETAL MUSCLE EARTHWORM SMOOTH MUSCLE	QUIZ 7
6 Apr	CRAYFISH CARDIAC HEART RATE FROG HEART LAST DAY TO DROP WITH A “W” (4-10)	QUIZ 8 LAB REPORT 2 ASSIGNED
13 Apr	HUMAN CARDIOVASCULAR (BLOOD PRESSURE) HUMAN CARDIOVASCULAR (HEART & CIRCULATION) DIVING RESPONSE	QUIZ 9 LAB REPORT 2 DUE
20 Apr	RESPIRATION EXERCISE PHYSIOLOGY	QUIZ 10
27 Apr	FINAL EXAM	

LAB GRADE DETERMINATION

Midterm Examination		100 pts.
Final Examination		100 pts.
Lab Reports	2 @ 50 pts each	100 pts.
Quizzes	10 @ 10 pts each	100 pts.
Participation	10 @ 10 pts each	100 pts.
Total		500 pts.

A = 450-500pts., B = 400-449pts., C = 350-399pts., D = 300-349pts., F = <299pts