

BIOLOGY 4510 LAB
ANIMAL PHYSIOLOGY LABORATORY
Fall 2025

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 22 Aug 2025). 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 acurran@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 be allowed to make up one exam and one quiz. The coordinator neither needs nor wants to hear the reason for the absence, so don't bother telling him. While the grade may be made up, the absence will not be removed from the student's record and counts toward the 4 absences precipitating an automatic F. Make ups should be arranged with the TA. All make ups must be completed by 12 December 2025.

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

1. Lab reports are due at the beginning of class. There will be four points per day deducted for all late reports.
 2. Make-up midterm or final exam must be arranged with the teaching assistant.
- There is absolutely NO EXTRA CREDIT. DON'T ASK.

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<u>Week</u>	<u>Topic</u>	<u>Quizzes</u>
18 Aug	COURSE INFORMATION, SCIENTIFIC METHOD, STATISTICS & EXP. DESIGN	QUIZ NA
25 Aug	DATA PRESENTATION; INTRO TO Lt LABS	QUIZ 1
1 Sep	LABOR DAY – NO LABS	
8 Sep	OSMOLARITY	QUIZ 2
15 Sep	ANIMAL METABOLISM	LAB REPORT 1 ASSIGNED
22 Sep	EARTHWORM ACTION POTENTIAL	QUIZ 3
29 Sep	COCKROACH SENSORY NERVE FROG NERVE	QUIZ 4 LAB REPORT 1 DUE
6 Oct	VISION	QUIZ 5
13 Oct	MIDTERM EXAM	
20 Oct	HUMAN SKELETAL MUSCLE	QUIZ 6
27 Oct	FROG SKELETAL MUSCLE EARTHWORM SMOOTH MUSCLE	QUIZ 7
3 Nov	CRAYFISH CARDIAC HEART RATE FROG HEART LAST DAY TO DROP WITH A “W” (11-7)	QUIZ 8 LAB REPORT 2 ASSIGNED
10 Nov	HUMAN CARDIOVASCULAR (BLOOD PRESSURE) HUMAN CARDIOVASCULAR (HEART & CIRCULATION) DIVING RESPONSE	QUIZ 9 LAB REPORT 2 DUE
17 Nov	RESPIRATION EXERCISE PHYSIOLOGY	QUIZ 10
24 Nov	THANKSGIVING – NO LABS	
1 Dec	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