

Biol 3144 – Physiology Lab

Course Syllabus – Fall 2022
Monday 2:00 – 4:50 pm BEP 128

INSTRUCTOR

Dr. Ryan Shartau

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Office hours : Mon 10am-12pm, Thu 10-11am, or by appointment

REQUIRED COURSE MATERIAL

Human Physiology Experiments Vol 1 & 2; Vernier (will be provided at no cost)

PhysioEx 10.0: Laboratory Simulations in Physiology, Access Code Package (~ \$30).

You will need to use the link below for purchasing an access code for PhysioEx, not a print book or an e-book, just an access code which you will use to login at the link below as well. Bookstore should be carrying an access code if you prefer for any reason.

https://media.pearsoncmg.com/bc/bc_0media_ap/physioex//10/login/sign-in.php?dest=https://media.pearsoncmg.com/bc/bc_0media_ap/physioex/10/index.php

You will always visit the website above to sign in and complete your assigned lab exercises. You would then upload it directly to Canvas.

This is a short Video on how to use PhysioEx

<https://www.screencast.com/t/pat0skPchWVL>

GRADING POLICY: Weekly assignments will consist of fill in the blank/short answer questions located within the lab manual that you will complete and submit on Canvas. You will turn these in by the following Monday deadline. Late assignments will not be accepted. These participation scores will compose 40% of your overall grade. A midterm and final exam will be given comprising 30% each towards your overall grade.

TENTATIVE LAB SCHEDULE

Week	Date	Lab exercise
1	Aug 22	No lab
2	Aug 29	Introduction and cell transport PhysioEx 1: Cell Transport Mechanisms and Permeability (Due Sep 12)
3	Sep 5	No lab (Labor Day)
4	Sep 12	Neurobiology PhysioEx 3: Neurophysiology - Nerve Impulses (Due Sep 19)
5	Sep 19	Muscle physiology PhysioEx 2: Skeletal Muscle Physiology (Due Sep 26)

6	Sep 26	Cardiovascular physiology PhysioEx 5: Cardiovascular Dynamics (Due Oct 3) PhysioEx 6: Cardiovascular Physiology (Due Oct 3)
7	Oct 3	Blood PhysioEx 11: Blood Analysis (Due Oct 10)
8	Oct 10	Midterm exam (Intro/cell transport, neurobiology, cardiovascular, & blood labs)
9	Oct 17	Respiratory system I PhysioEx 7: Respiratory System (Due Oct 24)
10	Oct 24	Respiratory system II PhysioEx 10: Acid-Base Balance (Due Oct 31)
11	Oct 31	No in-person lab Digestive physiology PhysioEx 8: Chemical and Physical Processes of Digestion (Due Nov 7)
12	Nov 7	Endocrine physiology and metabolism PhysioEx 4: Endocrine System Physiology (Due Nov 14)
13	Nov 14	Renal physiology PhysioEx 9: Renal System Physiology (Due Nov 21)
14	Nov 21	Thanksgiving break
15	Nov 28	Final Exam (respiratory, digestive, endocrine, & renal labs)

Important Dates:

Sep 5 – Labor day (no class)

Nov 4 – Final date for dropping with a W

Nov 21-26 – Thanksgiving break (no class)

Dec 6-10 – Final exam period

***** I reserve the right to make changes to this schedule throughout the semester but I will inform you of any changes in a timely fashion *****

Letter grades will be assigned according to the following scale:

A: >90; B: 80-89.9; C: 70-79.9; D: 60-69.9, F: <60.

CLASS EXPECTATIONS AND ACADEMIC MISCONDUCT:

Students will be expected to follow the University of Texas at Tyler Honor Code.

Submitting plagiarized work to meet academic requirements including the representation of another's work or ideas as one's own; the unacknowledged work for word use of another person's ideas; and/or the falsification, or dishonesty in reporting research results shall be grounds for charges of academic misconduct. Any cheating or other types of academic misconduct will be reported to the university administration and at minimum will result in automatic failure of the course.

Use of electronic devices (e.g. phones, tablets, smart watches, etc) during exams is strictly forbidden.