

BIOLOGY 3343.001 - Physiology
Syllabus & Schedule
Fall 2025
HPR 262

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Office Hours: Tue. & W. 10:30 –12:00 or by appointment. I encourage you to take advantage of the office hours to discuss course topics and review your exams.

REQUIRED COURSE MATERIAL

Human Physiology, Bryan Derickson, 3rd Ed, 2024, Wiley, Identifiers: LCCN 2024002420 (print) | LCCN 2024002421 (ebook) | ISBN 9781119821076.

This ISBN package includes eTextbook, PowerPhys (Physiological simulation software for the lab), and online course material. So, a single package of ~ \$79.0 will take care of your lecture and the lab.

COURSE DESCRIPTION

This course will provide fundamental knowledge of the principles of Human physiology at the cellular and organ system levels. Current topics include the structure of major organ systems and their functions in maintaining homeostasis, which is essential for cell survival.

SPECIFIC OBJECTIVES

1. Define anatomical and physiological terminology
2. Describe the structure and function of the various cell and tissue types
3. Explain the structure and function of the major organ systems
4. Define homeostasis and elucidate the contribution of each system to whole-body homeostasis
5. Communicate the learned scientific concepts through case studies in medicine

ATTENDANCE & PARTICIPATION. This will be an interactive class, and students are expected to read the scheduled chapter topics ahead of time and participate in team-based class discussions and Q/A. Your **attendance** will be recorded on Canvas for each session, and your **participation** will be evidenced by your responses to weekly discussion topics posted on the course Canvas. Students are allowed and encouraged to read others' write-ups after posting their answers. Due to the complexity of the scientific topics, you are encouraged to work with your teammates in class and in preparation for the exams. I will post my PPs after each chapter and hold a review session (Q/A format) over the past lectures at the beginning of each class session instead of having a single review session before exams.

If you miss class, it is your responsibility to contact other students to get notes and other announcements made during class. Please make sure to turn on the “**Announcement**” in your account Notification Preferences to receive emails regarding new course announcements on Canvas.

Finally, you will be challenged to distill and communicate scientific knowledge. So, please enthusiastically read assigned journal articles, extract information, and synthesize a summary worth 10% of your course grade. For each posted article, you must write a short 3-paragraph essay. The first 2 paragraphs should summarize the hypothesis and goals of the research, and the 3rd paragraph should

focus on the data and study outcomes that you found interesting. Each essay is worth 10 points, and you will need to upload them in the Assignment threads on Canvas before its closure time.

Grading Policy

The final grade will be determined as follows: Any modifications to this policy will be communicated to the class ahead of time.

Online Quizzes	10%
Class participation and Online Discussions	10%
Assigned Journal Articles	10%
<u>Exams</u> - In-person, Scantron.	
Midterm (3 exams) & a comprehensive final exam.	70%
Total	100 %

Letter grades will be assigned according to the following scale: A = 90-100, B = 80-89, C = 70-79, D = 60-69.

No additional work for extra credit will be given at the end of the semester.

Grade rounding: If your final course grade is within 0.5 points of the next letter grade, it will be rounded up automatically. The only other adjustment that will be made is if the final percentage is within one point of the next letter grade and the student has missed three or fewer lectures throughout the semester.

Documentation for missing exams

- I will need notes for pre-scheduled or excused absence, including conferences, field trips, athletic events/games, doctor's appointments, obituary, police report, court documents, and other extenuating circumstances to explain the absence.

Academic Integrity: Students should be aware that **absolute** academic integrity is expected of every student in all undertakings at The University of Texas at Tyler. Failure to comply can result in strong university-imposed penalties. I will notify the University Administration of any cheating!

Copyright- Recording of class sessions: Class sessions may be recorded by students enrolled in this course. Recordings that contain personally identifiable information or other information subject to FERPA shall not be shared with individuals not enrolled in this course unless appropriate consent is obtained from all relevant students. Class recordings are reserved only for the use of students enrolled in the course and only for educational purposes. Course recordings should not be shared outside of the course in any form without my permission.

I reserve the right to modify the syllabus and the schedule at any time. Therefore, your attendance and attention to the announcements on Canvas are crucial because they will assist you in remaining current on the material and knowing when the syllabus may be modified.

Important dates

Aug 25th Classes begin
Sept 8th Census Date – Deadline for Registrations & Schedule Changes
Nov 3rd Last day to withdraw with "W"
27-28 Thanksgiving holidays for staff, all offices closed
Dec 8-12 Final Exams

General information _ *Resources for UT Tyler Students Success:* Please refer to “[Student Resources](#)” and “[University Policies](#) and Information” on the course Modules/Canvas regarding policies pertaining to your request, including the make-up final exam.

TENTATIVE SCHEDULE

Date/Week	LECTURE	CHAPTER
August		
25- 29	Class orientation, Introduction to Physiology	1
	Students Read:	
	Chemistry	2
	Metabolism	4
September		
1- 5	Cell - Students read: 3.1-3.6; Lecture 3.7-3.8	3
8-12	Membrane Transport	5
15-19	Cell Signaling	6
22	Exam 1	1, 3, 5, 6
24-26	Nervous System-Neuronal Excitability	7
29	The Nervous System – CNS	8
October		
1 - 3	Sensory System & Autonomic NS	8, 9,10
6 -10	Endocrine System	13
13th	Exam 2	7-10, 13
20 – 24	The Cardiovascular System- Heart	14
27 – 31	Cardiovascular System -Hemodynamics	15
November		
03 - 7	Cardiovascular System-Blood	16
10-14	Immune System	17
17th.	Exam 3	14 -17
19-21	The Respiratory System	18
24 - 28	Thanksgiving Holiday	
December		
1-5	The Unitary System	19
	Fluid Balance	
FINAL EXAM	Dec...	
Bucket List		
(Lab!)	The Digestive System & Energy Balance	21-22
	Muscle / Motor Movement	11, 12
	The Reproductive System	23