Biol 3343– Physiology Lecture

Course Syllabus – Fall 2022
M/W/F 9:05 AM – 10:00 AM

INSTRUCTOR

Dr. Ryan Shartau
Office: HPR 110
Email: rshartau@uttyler.edu
Office hours: Mon 10am-12pm, Thu 10-11am, or by appointment

SUGGESTED COURSE MATERIAL

Textbook: Human Physiology, B. Derrickson, 2nd Ed, Wiley

COURSE DESCRIPTION

This course will provide advanced knowledge on the principles of human physiology at the cellular and organ systems level. Current topics include the major organ systems structure and their functions in maintaining homeostasis essential for cell survival.

SPECIFIC OBJECTIVES

1. Review the structure and function of the various cell and tissue types
2. Explain the structure and function of the major organ systems and regulatory mechanisms involved
3. Decode contribution of each system to whole body homeostasis
4. Interconnect scientific concepts to real world physiology case studies, including those in the biomedical field

EVALUATION

Attendance: 15%
Paper: 20%
Midterm exams: 40%
Final exam: 25%

Exams will be a mix of multiple choice and short answer. Midterm exams will be conducted during class time. Midterm exams are NOT cumulative; the final exam IS cumulative. There will be three midterm exams, with the lowest exam will be dropped so that the highest two midterm exam will be worth 20% each towards of your final grade. Details of the paper will be provided in class.

Attendance will count for 15% of your grade; attendance will be taken at random during the semester. Only valid medical or emergency excuses for absences will be accepted.

No make-up exams will be given unless arranged ahead of time with a valid excuse (e.g. athletic tournament, hospitalization, etc). I do not curve or round grades – do not ask please.

TENTATIVE CLASS SCHEDULE

Week	Date	Lecture topics	Chapters
1	Aug 22	Introduction to physiology	1-6
2	Aug 29	Nervous system	7-10
3	Sep 5	No class Labor Day; Nervous system	7-10
4	Sep 12	Nervous system	7-10
5	Sep 19	Cardiovascular system	14-16
6	Sep 26	Cardiovascular system	14-16
7	Oct 3	**Midterm 1 – Oct 7**; Immune system	17
8	Oct 10	Respiratory system	18
9	Oct 17	Urinary system	19
10	Oct 24	**Midterm 2 – Oct 28**; Fluid balance	20
11	Oct 31	Endocrine system	13
12	Nov 7	Digestive system	21, 22
13	Nov 14	**Midterm 3 – Nov 18**; Reproductive system	23
14	Nov 21	Thanksgiving break	
15	Nov 28	Review	

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 *****

Midterm 1: Intro to physiology; nervous system; cardiovascular system
Midterm 2: Immune system; respiratory system; urinary system
Midterm 3: Fluid balance, endocrine system; digestive system
Final: cumulative but will include additional focus on the reproductive system

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.