Biol 3343– Physiology Lecture

Course Syllabus – **Fall 2023**
M/W/F 9:05 AM – 10:00 AM

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

SUGGESTED COURSE MATERIAL

Textbooks: Human Physiology, B. Derrickson, 2nd Ed, Wiley
Principles of Animal Physiology, Moyes & Schulte, 3rd Ed, Pearson.

COURSE DESCRIPTION
This course will provide advanced knowledge on the principles of human and animal 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: 10%
Paper: 20%
Midterm exams: 45%
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 22.5% each towards of your final grade. Details of the paper will be provided in class.

Attendance will count for 10% of your grade; attendance will be taken at random during the semester. Only valid medical or emergency excuses for absences will be accepted. You are responsible for signing the sheet!

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 in Derrickson	Chapters in Moyes
1	Aug 21	Introduction to physiology	1-6	1-4
2	Aug 28	Nervous system	7-10	5, 7, 8
3	Sep 4	No class Labor Day; Nervous system	7-10	5, 7, 8
4	Sep 11	Nervous system	7-10	5, 7, 8
5	Sep 18	Cardiovascular system	14-16	9
6	Sep 25	Cardiovascular system	14-16	9
7	Oct 2	**Midterm 1 – Oct 6**; Immune system	17	10
8	Oct 9	Respiratory system	18	11
9	Oct 16	Urinary system	19	13
10	Oct 23	**Midterm 2 – Oct 27**; Fluid balance	20	13
11	Oct 30	Endocrine system	13	4 (8, 13, 15, 16)
12	Nov 6	Digestive system	21, 22	14
13	Nov 13	**Midterm 3 – Nov 17**; Reproductive system	23	16
14	Nov 20	Thanksgiving break		
15	Nov 27	Review		

Important Dates:
Sep 4 – Labor day (no class)
Oct 30 – Final date for dropping with a W
Nov 20-24 – Thanksgiving break (no class)
Dec 4-9 – 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.