

Biol 3343– Physiology Lecture

Course Syllabus – **Spring 2024**

M/W/F 12:20-1:15PM in COB 212

INSTRUCTOR

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Office hours: Mon 1-3pm, Wed 9-11am, 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 Topic	Chapters in Derrickson	Chapters in Moyes
1	Jan 15	No class MLK day; Intro to physiology	1-6	1-4
2	Jan 22	Nervous System	7-10	5,7,8
3	Jan 29	Nervous System	7-10	5,7,8
4	Feb 5	Nervous System	7-10	5,7,8
5	Feb 12	Cardiovascular System; Midterm 1	14-16	9
6	Feb 19	Cardiovascular System	14-16	9
7	Feb 26	Immune System	17	10
8	Mar 4	Respiratory System	18	11
9	Mar 11	Spring Break ☺ (no classes)		
10	Mar 18	Urinary System; Midterm 2	19	13
11	Mar 25	Fluid Balance	20	13
12	Apr 1	Endocrine System	13	4 (8, 13, 15, 16)
13	Apr 8	Digestive System; Midterm 3	21, 22	14
14	Apr 15	Reproductive System	23	16
15	Apr 22	Review		
April 29 – May 3 Final Exams				

Important Dates:

Jan 15 – MLK Day (no class)

Mar 11-15 – Spring break (no class)

Mar 25 – Final date for dropping with a W

April 29 – May 3 – 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

Midterm 2: Cardiovascular system, 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.