

Zoology 2235: Human Physiology

Spring 2017; section 001

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Office Hours: Tues. 2-3 pm, Wed. 9-10 am, by apt.

Required Material

Human Physiology, 14th ed., Stuart Ira Fox, McGraw Hill, 2015.

- Ebook, loose leaf, or hard copy

Connect+Access (McGraw Hill, bundled at the bookstore)

Course connect webpage: <http://connect.mheducation.com/class/j-scales-fall-2017>

Course Description

Zoology 2235 is a detailed study into the functions of the human body. This course covers physiological systems with extensive detail regarding metabolism, nerves, muscle, cardiovascular, respiratory, and urinary functions. This course is designed for kinesiology students and students interested in entering the nursing program so BIOL 1050 or 1010/1020 and C or above in ZOOL 2250 are prerequisites. Physiology is a challenging subject so students should be prepared to spend a significant amount of time outside of class learning the course material (e.g. reading, reviewing notes, homework, etc.).

Course Objectives

The objective of this course is to familiarize students with the basic principles and concepts of human physiology, encourage intellectual interactions, teach physiological experimentation, and promote good laboratory skills. Thus, at completion of this course students should 1) have a strong understanding of the principles of human physiology, 2) the critical thinking skills to apply these principles to understand novel situations and modern medicine, and 3) have the laboratory skills necessary to perform experiments in physiology.

Course Information

Course materials, including lecture slides, scores, and homework will be posted online. Pertinent course information such as lecture slides and course announcements will be posted on Blackboard. Scores/grades will be posted on Blackboard **only**, and will not be provided via email or other means. Homework/quizzes will be administered on the course connect website. It is the student's duty to check Blackboard and their email for course information and homework.

Lectures

Lectures are designed with the course objectives in mind. Lectures will begin promptly at the start of class time. Students are expected to act in a professional manner towards the professor and other students at all times during lecture. This means that students should arrive

to class on time, turn off their cell phones, and refrain from talking during lecture or being disruptive in any manner. The use of audio and/or video recorders or cameras (including cell phone cameras) is **not** permitted during lecture. An exception is made for students who are registered with Disability Resource Services and are approved for this accommodation (see below).

Laboratory

Students are required to attend their scheduled section of lab. Lab attendance is mandatory and any missed labs (without prior arrangements) will result in a reduction in your grade. Students should be equipped with a lab manual, appropriate clothing (closed-toed shoes, lab coat, etc.) for each lab. Please see the separate lab syllabus for your lab section for details on lab procedures, policies, and grading.

Attendance

Regular attendance in lecture is essential to student success in this course. Attendance entails both your physical presence and your attention. If an absence is unavoidable, it is the student's responsibility to notify the professor as soon as possible. If a student is absent, the student (**not** the instructor) is responsible for all information and material missed. Attendance will be taken throughout the course. Poor attendance or disruptive behavior will be taken into consideration when grading.

Exams

There will be three lecture exams (100 points each). Exam question formats may include, but are not limited to true/false, multiple choice, and short answer. You may be required to use a Scantron for exams. It is the student's responsibility to bring a Scantron form **882E** and pencil to each lecture exam. No exams will be handed out after the first student has finished the exam. Make up exams are only allowed in extreme cases (family vacations or work **do not** qualify as extreme cases)! In cases of severe illness, family emergency (e.g. death in the immediate family) appropriate documentation will be required and make up exams must be taken within one week of the exam. **Students should arrange their schedules to accommodate exam dates!**

There will be one final exam on Tuesday, May 23 (11:15 am – 1:15 pm). The final will consist of two sections. A section including material covered after lecture exam 3, and a cumulative section including all material covered in lecture throughout the course. The final exam must be taken to pass the course.

Homework/Quizzes

There will be minimum of eight homework assignments throughout the course. Homework will be due by midnight of the due date. No points will be given for late assignments (no exceptions). Homework assignments will be through the course Connect website. You will learn more about how the homework is accessed, completed, and turned in during a Connect orientation session during the first day of class.

Homework assignments and quizzes may be added or dropped at the instructor's discretion.

Evaluation/Grading

Grades will be based on 580* points as follows:

3 lecture exams – 100 points each	300
1 final exam – 200 points	200
8 homework - 10 points each (80 pts total)	80
<u>Lab assignments/practicum – (250 pts)</u>	<u>250*</u>
Total Points:	830

*Exact points for lab will vary by assignment/practical and section. However, the grade you earn in lab will make up 30% of your final grade.

Letter grades will be assigned based on total points earned as follows:

A: 100-90%

B: 89-80%

C: 79-70%

D: 69-60%

F: \leq 59%

The use of +/- will be assigned at the instructor's discretion. Only letter grades can be earned in this course, the CR/NC option is **not** approved. Furthermore, an Incomplete grade will **not** be available for this section. Please see the *University Catalog* regarding incompletes. There will be no extra credit available for this course.

* Total points available may change if homework/quizzes are added, but grades will still be based on the same percentage of total points earned.

Reasonable Accommodation for Disabilities

Students with documented disabilities which may impact their academic performance should contact the disability Resource Services (DRS) office. The DRS staff will determine the appropriate accommodations for this course. Students with disabilities should also make an appointment with the instructor to discuss the appropriate accommodations. All information and documentation regarding disabilities is confidential. DRS students must still take all exams on the scheduled exam day.

Academic Integrity

There is zero-tolerance for academic dishonesty in this course. Academic dishonesty includes, but is not limited to cheating, plagiarism, or inappropriate use of course materials. Students violating this policy will receive a failing grade for the course and be referred to the Student Judicial Affairs Office. Furthermore, students exhibiting any behavior that is not consistent with the Student Conduct Code will be removed from the course and receive a failing grade. This

includes any behavior that interferes with course instruction and/or the ability of other students to learn. Please see the University Code of Conduct for more information:
<http://www.csustan.edu/judicial-affairs/student-responsibilities>

Implied Contract

This syllabus serves as a contract between you and the instructor. By remaining enrolled in this course, you acknowledge that you have read, understand, agree to the material and policies herein.

Tips for Success

1. **Devote time to this course.** Physiology can be a challenging subject. In order to succeed in this course, you will need to commit a significant amount of outside time for studying. For example, if you spend three hours in lecture a week, you should expect to spend a minimum of three hours outside of class studying the material.
2. **Attend and participate in class-** Successful students always attend class, but just being in class is only part of success. You must play an active role in your education. Read material before class so that the lecture content is familiar to you. Additionally, taking notes will help you pay attention in class and reading, hearing, and writing content will all improve your comprehension and retention. Review your notes after class and rewrite them or add to them if needed.
3. **Don't Fall Behind.** – This course covers a large amount of material and the material builds from one lecture to the next. Because of the pace of this course it will be very difficult to catch up if you fall behind. Keep up with the readings, lectures, and homework and you will be able to understand, retain, and enjoy the information much more. You are responsible for your education, so put in the time learn the material!
4. **Ask Questions** – If you don't understand a concept, ask a question. If you don't understand something, it's more than likely other students have the same question(s). Don't hesitate to ask me a question in class. You can also come to my office hours for any questions or clarification needed. Fellow students and tutoring can be invaluable resources as well.
5. **Work in groups-** Studying with others is often an effective way to learn material. Form study groups (even just pairs) to talk through ideas. Explain concepts to each other (teaching is one of the best ways to learn something) and challenge each other's ideas. Working/talking through problems with another person can be an effective learning tool. Attend tutoring sessions if needed.
6. **Discover your learning and study styles** – Students learn in different manners and at different rates. Try different learning and study strategies. People can learn visually, aurally, through reading/writing, or socially. Try different styles and see what works for you. Find study habits that work for you as well. How, where, when, how long, and with whom you study can all influence your leaning/retention. If you are unhappy with your performance in a course, do not expect your grades to change if you do not change your study habits/strategy.

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TENTATIVE LECTURE SCHEDULE*

Date	Lecture Topic	Chapter	
26 Jan	Introduction, orientation	-	
31 Jan	Homeostasis, Tissues	1	
02 Feb	Tissues, Chemical Composition of the Body	2	
07 Feb	Chemical Composition of the Body	2	Hwk 1
09 Feb	Cell Structure	3	
14 Feb	Cell Structure/ Enzymes	3/4	
16 Feb	Enzymes/Cell Interactions	4/6	Hwk 2
21 Feb	Cell Interactions/Cell Respiration	6/5	
23 Feb	Exam 1	-	
28 Feb	Cell Respiration/Cell Metabolism	5	
02 Mar	Cell Metabolism	5	Hwk 3
07 Mar	Membrane Potential	6	
09 Mar	Neurons and Synapses	7	
14 Mar	Neurons and Synapses/CNS	7/8	
16 Mar	CNS/Sensory Physiology	8/10	Hwk 4
21 Mar	No class (Spring Break)	-	
23 Mar	No class (Spring Break)	-	
28 Mar	Sensory Physiology/ ANS	10/9	
30 Mar	ANS/Endocrine Physiology	9/11	
04 Apr	Muscle	12	Hwk 5
06 Apr	Exam 2	-	
11 Apr	Muscle/Heart Physiology	12/13	
13 Apr	Heart Physiology/ Blood Vessels	13/14	
18 Apr	Blood/Immune System	14/15	Hwk 6
20 Apr	Immune System/Respiratory Physiology	15/16	
25 Apr	Respiratory Physiology	16	
27 Apr	Respiratory Physiology/Renal Physiology	16/17	
02 May	Renal Physiology	17	Hwk7
04 May	Exam 3		
09 May	Digestion	18	
11 May	Digestion/Regulation of Metabolism	18/19	
16 May	Regulation of Metabolism/ Review	19	Hwk 8
23 May	Final Exam (11:15-1:15 pm)	-	

*Note that the lecture schedule is tentative and will likely change, but will follow the same sequence. Homework dates are very flexible. Dates may change and assignments/quizzes may be added or dropped at the instructor's discretion.