

BIOL 2420

HUMAN PHYSIOLOGY

Course Objectives:

Welcome to Human Physiology! Physiology is among the most fascinating and challenging areas of science, as it is the study of body **function**, at the molecular, cellular, organ, and system levels - integration! The primary goal of this course is to instill an understanding of how the various systems of the human body work together to sustain life.

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Text: *Fundamentals of Human Physiology* by Stuart Ira Fox

**Obtain this book from Amazon.com = ISBN-13 #978-0077226350 ~\$32.17 USED

Course Academic Objectives/Topics Schedule: (See attached course outline/topics schedule)

Course Schedule: Class will be held in **room 165** on **Tues. and Thurs. from 5:15 - 7:15 pm.** The course calendar is located in CANVAS and provides the agenda for each class meeting. Also, see attached course schedule of academic topics. The dismissal time for each class meeting will vary depending on the academic content being discussed.

Attendance: Classroom attendance is mandatory to be successful in this course. It is not necessary that the professor be notified of your impending absence from the class unless it involves the need to reschedule your Unit Exam. You will be responsible for all information, assignments, etc. during your absence. See the Lab and Exam sections of this course syllabus to review the rules of attendance for those two categories of grading criteria.

Grading: (based on a categorical weighted scale)

*Unit Exams (100 pts each)	700 points (45%)
*Comprehensive Final Exam	200 points (15%)
*Laboratory Assignments (4)	500 points (30%)
*Group Oral Presentation	100 points (10%)

Total **1500 points**

** Grades are calculated based on the following grading scale :

A 100-94%; A- 93-90%; B+ 89-87%; B 86-83%; B- 82-80%;
C+ 79-77%; C 76-73%; C- 72-70%; D+ 69-67%; D 66-63%; D- 62-60%; F 59%

Exams: You will be given **7 Unit Exams** each worth 100 points. Unit Exams will consist of multiple-choice, short answer and labeling questions. The quantity of questions per unit exam will vary with each chapter we cover. All exams are to be taken during the scheduled window period in the testing center here on campus. All exams will be taken on paper and corrected by the instructor. Only ONE make up (rescheduled) exam will be permitted during this course. Any consecutive missed exams will not receive any points toward the students final grade in the

course. The exams are taken without the aid of notes, notecards or textbooks. The lowest test score out of the six unit exams will be dropped from overall grade in the course. The comprehensive final exam is mandatory and can't be dropped as a lowest score. The comprehensive final exam will consist of 80% "old/already seen questions" from prior chapter units and 20% "new/unseen questions".

Laboratory Assignments: You will have FIVE lab activities that are worth 100 points each and will be performed in our Biology Lab classroom. There are NO MAKE UP LAB ACTIVITIES. Since attendance is only half of the total points for lab, a student can earn half credit for the lab by submitting the written portion by the due date. Each of the four lab experiences have a written portion that has a specific due date (see course calendar). The lab assignments are both group and individual data driven.

Group Oral Presentation: The group presentations will be done over one class period (See course calendar). The topic will be "Maintaining Systemic Health" and will be performed in groups of 2-3 individuals. The presentations will have certain criteria in which to follow to complete the assignment. (see handout)

Students With Disabilities: If a student has a disability that will likely require some accommodation by the instructor, the student is requested to contact the instructor and also document the disability with the University Disability resource Center.

Suggestions On How To Be Successful In This Course:

This course covers a great deal of complex and interrelated material. You must understand topics covered early in the course to be able to comprehend information presented later in the course, and you will have to be able to integrate material that you learn throughout the course. Therefore it is imperative that you do not fall behind. You can take several steps to increase your ability to comprehend and remember material >>>

1) Do the assigned reading for a topic **before the lecture** covering that topic; being familiar with topics beforehand will allow you to get the most out of lecture. The reading includes the VOCABULARY! Make sure you learn the terms in the chapter before you attempt to understand, connect and apply the biological concepts in the chapter.

2) It is pertinent that you **attend the lectures**. Most often a course with the academic challenges this one offers, requires a student to be present during the professors' lecture to ensure their understanding of the content material through peer-assistance, Q & A sessions and classroom impromptu discussions. The most effective note-taking is done when the student is present during class discussions. Students who attend class regularly get the most out of the course and perform the best on the exams. I would suggest having a hardcopy of the ppt presentations so that you can add notes that I provide for specific slides.

3) Be aware that **the topics in this course build on each other**. For example, you must understand electrochemical gradients to comprehend how neurons function which leads to an understanding of cardiac function. So make sure that when you study a topic, you comprehend it thoroughly so that you will be able to recall and apply that prior knowledge to the topic at hand. Do NOT fall behind in your reading and studying. It is difficult to catch up once you fall behind in a course of this type. Make sure you set aside regular times outside of class to **get organized** and **STUDY!** **Study groups** are highly suggested! Form them early in the course so cooperative learning opportunities will be most effective.