Syllabus

Instructor:	**Mark A. Grobner, Ph.D.**
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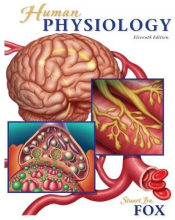
Office hours:	TR 10:00-11:00 pm W 2:00 pm Other times by appointment.
Course Link:	http://biology.csustan.edu/~grobner/mark-moodle/
Personal Link:	http://biology.csustan.edu/~grobner
Biology Dept.:	http://biology.csustan.edu/biology
Lectures:	Sec 002 MWF 1:00-1:50 pm in N322
Laboratory:	Sec 002 W 9:00-11:50 pm in N229 Sec 003 R 2:00-4:50 pm in N229

Text: Human Physiology, 11th Edition
by Stuart Ira Fox, ISBN 0077265874



Prerequisite: Biol 1010 or Zool 1050 or Zool 2250

This course will examine human physiology. Physiology is the science of functional mechanisms of living organisms and their parts (cells, tissues, organs and systems). Human physiology therefore involves the study of the functions of the human body. In this course you will learn about the workings of your own body. Some of you are taking this course because it is required for your professional or pre-professional degrees. Others are taking it as a general education requirement. Regardless of the academic or practical reasons, I am convinced that you will find the study of physiology both fun and intellectually rewarding.

In this course you will learn about your body and how it functions. Lecture materials emphasize physiology at the cellular and organ system level including digestion, respiration, circulation, excretion, muscle and movement. At the end of the course you will be able to understand the relationships between anatomical structures and their functions, and how they are correlated and integrated into a smooth functioning organism. Furthermore, you will be able to understand how the human body adjusts to the adversities of its environment, using various modifications of the anatomical and physiological specializations.

Course objectives

The students will:

1. Describe the topics studied in physiology and explain the importance of physiology in modern medicine.
2. Examine the role of the scientific method in the study of physiology as it relates to evaluating evidences and drawing logical conclusions.
3. Examine fundamental physiological principles, and the progression of structural levels of organization, and evaluate them as they apply to the homeostasis of human systems.
4. Investigate the chemical basis of life with emphasis on structure and function of macromolecules.
5. Describe the mechanisms of dehydration synthesis and hydrolysis reactions and their significance.
6. Examine the tissue level of organization and interpret the role of tissues in human systems.
7. Compare and contrast the location, organization and function of the four basic classifications of human tissues.
8. Define homeostasis and explain how this concept is used in physiology and medicine.
9. Describe the nature of negative and positive feedback loops and explain how these mechanisms act to maintain homeostasis.
10. Distinguish between intrinsic and extrinsic regulation and the roles of nervous and endocrine systems.
11. Examine and describe the major features and functions of the cardiovascular, respiratory, muscular, digestive, immune, reproductive, and renal systems and their contributions to homeostasis.

Please be sure to turn pagers and cell phones off before lecture begins. During exams, you will not be allowed to have either out, the only thing you should have is a sharp #2 pencil and your Scantron. During lecture, please refrain from socializing with your friends. This makes it hard for me to concentrate and is disrespectful to the students around you.

Exams: There will be two exams worth 16% of your grade each and a comprehensive final worth 32%. The exams will consist of multiple choice, true/false, fill in the blank, matching and essay questions. You need a Scantron form No. 882-E for each exam and a number 2 pencil with a good eraser.

You must not leave the room during an exam without the instructor's permission. You must turn off cell phones and remove baseball caps during exams. If your cell phone rings during an exam five (5) points will be deducted from your score. Failing to follow the instructions written on your exam will result in five (5) points being deducted for **each** violation. No food or drinks are permitted during exams. Cell phones must be put

away during exams. Taking out a cell phone during an exam is considered cheating, your exam will be confiscated, and you will receive a grade of F for that exam.

The exam schedule and percentage grade distribution is as follows:

	Date	Percent
Exam 1	9/27	16
Exam 2	11/3	16
*Final	12/17	32
iclicker Quizzes		10
Online Self Quizzes		11
Worksheets		15
Total percentage		**100**

*** The final is from 11:15 - 1:15 in N322.**

Quizzes: Throughout the term, unannounced iclicker quizzes will be given. The quizzes are to encourage students to be prepared for class (e.g. reading the chapters and reviewing the notes). For each quiz taken, you will get 1/2 point for taking the quiz and 1/2 point for each correct answer. There will be approximately 50 such quizzes throughout the term.

You are required to purchase an i>clicker remote for in-class participation. i>clicker is a response system that allows you to respond to questions I pose during class, and you will be graded on that feedback and/or your in-class participation. In order to receive this credit, you will need to register your i>clicker remote online by 8/27/10. You must have come to class at least once and responded to at least one question in order to complete this registration properly. Once you have responded to a question in my class, go to http://www.iclicker.com/registration/. Complete the fields with your first name, last name, student ID, and remote ID. The remote ID is the series of numbers and sometimes letters found on the bottom of the back of your i>clicker remote. i>clicker will be used every day in class, and you are responsible for bringing your remote daily. Anyone caught with two clickers in class and the person belonging to the second clicker will receive an automatic F in the course.

Online Quizzes: Located at the publisher's site for the book are a series of online quizzes you will need to take. There is approximately one quiz per chapter. Login information is found at the end of the syllabus. You must complete the quizzes before the tests for the particular chapters. Due dates for each quiz will be posted, there is no option for taking these late

Worksheets: Periodically, worksheets will be available online for you to download and complete. This will be turned in for points. I will make keys available for each sheet. These are worth 15% of your final grade.

Missed Exams or Quizzes: If necessary, an exam may be taken early, but not late. It is the student's responsibility to notify the instructor prior to missing an exam and to supply a **valid written** excuse. Any unexcused missed exams will be recorded as a zero. **There are no make-ups on missed quizzes.**

Grades: Final grades will be assigned based on the percentage of the total points acquired. There are 500 points possible. Grades will be assigned using the following grading scale:

100-94% = A	93-90% = A-	89-87% = B+
86-84% = B	83-80% = B-	79-77% = C+
76-74% = C	73-70% = C-	69-67% = D+
66-64% = D	63-60% = D-	Below 60% = F

Lecture Topics

Date	Topic	Chapter
8/23-27	Introduction to Physiology & Control Systems	1
8/27-8/31	Chemical Composition of the Body, Cell structure	2, 3
9/1-9/3	Enzymes and Energy	4
9/10-9/13	Membrane Transport	6
9/15-9/20	The Digestive System **Last day to add/drop 9/20/10**	18
9/22-9/24	Regulation of Metabolism	19
9/27	**Exam #1**	
9/29-10/1	The Respiratory System	16
10/4-10/8	The Cardiovascular System	13
10/11-10/18	Cardiac Output and Blood Flow	14
10/20-10/25	The Immune System	15
10/27-11/1	The Muscular System	12
11/3	**Exam #2**	
115-11/8	The Urinary System	17
11/10-11/12	The Reproductive System	20
11/15-11/17	The Nervous System	7
11/19-11/22	Central Nervous System	8
11/24-11/29	The Autonomic Nervous System	9
12/6-12/8	The Endocrine System	11
12/17	**Final 11:15-1:15**	

This schedule is subject to change.

Direction to access Online Materials-- your text book is Fox 11

You may need to use the registration code that comes with your new textbook to log into ARIS.

Go to: http://www.mharis.com

- **On the right hand side of the page, please click register as a student.**
- **Fill in your email address and click Submit button.**
- **Fill in the appropriate fields. Do not worry about filling in your school as you will fill in your section code later.**
- **Accept the agreement and click Complete my Registration.**
- **Your account is now ready. Enter your appropriate section code from below and click GO.**

Section 1: FILL IN SECTION ENROLLMENT CODE FD7-BC-98D