

HUMAN PHYSIOLOGY
Anat 240

Fall 2017
Dr. Jake Sapiro

TENTATIVE SCHEDULE

	LECTURE	LAB
Aug. 29	Introduction, homeostasis	Scientific Method
Aug. 31	Chemistry	Diffusion
Sept. 5	Chemistry	Surface Area/Volume
Sept. 7	Enzymes	Enzymes
Sept. 12	Membranes, Membrane Transport	Membranes
Sept. 14	Cell structure, protein synthesis	Membranes
Sept. 19	Regulation of Cell Division/Cancer	Genetics/Review
Sept. 21	Exam I (through protein synthesis)	
Sept. 26	Cellular metabolism	Mitosis
Sept. 28	Neural signaling	Fitness
Oct. 3	Neural signaling	Reflexes
Oct. 5	Sensory Physiology	Senses (cutaneous)
Oct. 10	Central Nervous System	Senses (vision)
Oct. 12	Peripheral Nervous System	Senses (taste)/Review
Oct. 17	Exam II (through CNS)	
Oct. 19	Endocrine physiology/Signal transduction	
Oct. 24	Muscle physiology	Senses (hearing)
Oct. 26	Muscle physiology	Muscle physiology
Oct. 31	Cardiovascular physiology	Review
Nov 2	Exam III (through muscle physiology)	
Nov. 7	Cardiovascular physiology	EKG
Nov. 9	Cardiovascular physiology	Blood pressure
Nov. 14	Respiratory physiology	Respiratory function
Nov. 16	Immunology	
Nov. 21	Renal physiology	Blood tests
Nov. 23	Thanksgiving	
Nov. 28	Exam IV (through immunology)	
Nov. 30	Renal physiology	Urinalysis

Dec. 5	Digestive physiology/Regulation of metabolism	Lab book due
Dec. 7	Reproductive physiology	
Dec. 12	Review	
Dec. 14	<u>FINAL EXAM</u>	

Texts: Vander's Human Physiology (12th edition) by Widmaier, et al.
Human Physiology Laboratory Manual by Sapiro, J. (available on line)

COURSE OBJECTIVES

Instructional Objectives: Upon successful completion of Human Physiology, the student will be able to:

1. Relate how homeostatic mechanisms respond to internal and external changes in the environment.
2. Describe the basic chemical-physical principles that underlie the functions of cells and tissues.
3. Examine the role of cellular energetics and protein synthesis in maintaining homeostasis.
4. Construct appropriate experimental designs and predict outcomes.
5. Relate the relationship between morphology and physiology.
6. Analyze data acquired in the laboratory.
7. Assess the function of the major organ systems in health and disease.

Student Learning Outcomes: Upon successful completion of Human Physiology, the student will be able to:

1. Compile and interpret data acquired in the laboratory.
2. Relate how homeostatic mechanisms respond to internal and external changes in the environment.
3. Compare and contrast normal physiological states and nonpathological variant states to pathophysiological conditions.

CLASS POLICIES

I. Participation Policy

Participation, not merely attendance is mandatory. Under Title 5 California Administrative Code, Section 58004: A student may be dropped if no longer participating in the course. "No longer participating includes but is not limited to excessive absences."

The following criteria define participation:

1. Arrive on time to class and stay the entire class period.
2. Bring all of the materials necessary for that class, for example books, paper, pens, etc.
3. Turn in all assignments on time and complete.
4. Actively do assigned lab work.
5. Contribute to group projects.
6. Follow all of the rules and safety regulations of the class.
7. Take all assigned quizzes and exams.
8. Contribute to class discussions

II. Attendance and Lateness Policy

You are expected to attend and participate in all lectures and labs. You may be dropped for excessive absences. If you miss a lecture, it is your responsibility to find out what we did in class and to keep up with the work. If you miss a lecture exam you will be allowed to take one make-up exam usually given during the last week of the semester. Be warned, make up exams are harder than the regular exams. You may only take one make up exam per semester. If you miss a lab you will not be able to make it up. If you miss three labs, you will be dropped from the course.

Arrive on time to class. Three latenesses count as an absence. If you miss more than 20 minutes of a lab, it counts as an absence. All assignments are to be turned in at the beginning of class on the date due. Late assignments will not be accepted.

III. Drop Policy

If you wish to drop the class, it is your responsibility to do so in a timely manner. If you have not dropped the course by the drop deadline you must receive a grade for the course. Grades of "Incomplete" will only be given to those students who are passing the course, but missed the end of the semester. **If you are not participating as defined in section I., or have excessive absences, you may be dropped from the course.**

If you choose to drop the course, understand that a "W" will appear on your transcript and that more than one or two "W's" will have a negative impact on your ability to get into a health-related program.

IV. Cheating Policy

If your behavior makes me suspect that you cheated in any way (as defined in the College catalog) you will get a 0 for the exam. A report will be submitted to the vice president for further action such as expulsion from the college.

V. Breakage Policy

Many of the materials you will be handling in lab are fragile and expensive. If you are not careful and break or leave a permanent mark on something, this shows a careless disregard of the rules. You will lose 10 points off your final grade.

VI. Cell Phones

Turn off your cell phone or put it on vibrate before entering class. If your phone rings during lecture or lab you will lose 5 points. If your phone rings during an exam, you will lose 10 points

VII. Copyright

All recordings taken in class are copyrighted by Dr. Sapiro. These recordings may be distributed to other students currently enrolled in the class, but otherwise may not be reproduced or distributed without the expressed permission of Dr. Sapiro

VIII. Grading Policy

You earn your grade; my job is merely to record it. This is a very straight-forward class. There are specific things for you to know, and either you know the material or you don't. You will be graded almost exclusively on your knowledge of the material as demonstrated by your performance on the exams and showing proficiency and understanding of the laboratory exercises. Because this is a pre-professional class with very specific requirements, the opportunities for extra credit are very limited. There will be extra credit questions on lecture exams. In addition there will be some occasions in which I will award a few points for going beyond the scope of the class, for example, if you find an error in my lectures or in the book. Exams will be graded and returned to you promptly during the semester and cumulative grades will be posted. It is your responsibility to go over the exams and grades to make sure there are no errors in scoring. Graded exams will be available for you to look at, but I will keep them in my files.

TENTATIVE GRADING FORMULA:

Lecture Exam(100 pts. each)	400 points	A = 89 - 100%
Final Exam.	100 points	B = 79 - 88%
Lab exercises	140 points	C = 68 - 78%
Participation	30 points	D = 55 - 67%
Total	670 points	F = 0 - 54%

(There may be other quizzes and assignments which would add to the point total.)

If you have any questions about the lecture or lab material or any of the assignments, please see me during lab, after class, in my office or e-mail me. **It is to your credit to show that you are smart enough to ask for help when you need it.**

Dr. Sapiro's office: Room 411-04 Phone (714) 992-7431 mail: jsapiro@fullcoll.edu

Web site: <http://anatandmore.us/jas/sapiro-title.html>

While I try to check my messages and respond in a timely manner, if it's important, see me personally.

Office hours: Tues. 4:30 - 5:30 (Rm 411-04)

Weds. 11:20 - 12:00 (Rm 411-04); 12:00 - 1:20 (Rm 427 or Rm 411-04);

Thurs. 11:30 - 1:00 (Rm 411-04); 4:30 - 5:30 (Rm 411-04)

I am also available in my office at other times by appointment.