

HUMAN PHYSIOLOGY (SBIO 242) – Fall 2009

Tentative Syllabus & Schedule

<u>Instructor</u>	<u>Office</u>	<u>Office Hours</u>	<u>Phone</u>	<u>Course Web Resources</u>
Dr. David Ferris	SM 312	By Appointment 1 st in 8:30-5 most days	503-5725	http://faculty.uscupstate.edu/dkferris/

Course Objectives:

Human Physiology is the study of human body function. Upon successful completion of this course, you will understand how most major systems in the human body function from the cellular level to the complex interactions of organ systems. The major unifying concept in physiology is HOMEOSTASIS, the process in which the body constantly monitors its internal and external environments and adjusts its systems to maintain stable conditions in which cells can function. You will learn how the body's systems interact to maintain homeostasis, and what may happen when these systems don't work properly.

Course Prerequisites:

Human anatomy (SBIO 232) and completion of a college-level chemistry course are required prior to enrollment in Human Physiology. Since Anatomy and Chemistry are important components of physiology, you will be tested over concepts learned in the human anatomy and the chemistry courses even though those topics may not be specifically discussed during physiology lecture!

Text and other resources:

Human Physiology, Stuart Fox. 11th ed. (McGraw-Hill 2008)

Human Physiology Laboratory Manual. -Lab handouts may be provided in addition to the lab manual.

NOTE: Completion of Human Anatomy (SBIO 232 or equivalent) and a college-level chemistry course is required before taking SBIO 242. Anatomical knowledge is assumed and anatomy principles will not typically be covered in detail although you are responsible for knowing both function (physiology) and form (anatomy) for course exams!

Grading:

Grading in this course is not based on a curve. You are not competing with your peers and you will only benefit from helping each other. Your course grade and successful completion of the course will be based on the following components:

Attendance - You cannot learn as well if you are not in class. Attendance is mandatory and your final course grade will be lowered for excessive absences. Two or more unexcused absences will result in your final average being lowered by 10 points (example: 83 lowered to 73) for each unexcused absence. Tardiness counts toward class time missed. Each time you are tardy, it counts as 1/2 hour of class missed. If you arrive after the roll has been taken, you will be counted as "absent" unless you speak with the instructor immediately after class. An excused absence is one for which you have notified your instructor in advance, if reasonably possible, and you have evidence (court summons, doctor's note, etc.) supporting your reason for being absent. You must present the supporting evidence to the instructor during first class after you return. NOTE: If you stop attending, you must officially drop the course through the records office. Failure to officially drop will result in an F for the course on your transcript.

Assessments, Quizzes, & Participation - You will have four assessments (exams). Assessments will be structured to test your understanding and application of physiological concepts and terminology. **No makeup exams will be given** for excused or unexcused absences. If you miss an exam with an excused absence, your final exam grade will be weighted more heavily to compensate for one missing exam. If you miss an exam and the absence is unexcused, or you

miss a second exam, you receive a zero for that exam.

Additional items influencing your grade include:

- Quizzes (if given) will be unannounced and will test your knowledge of assigned readings.
- Assignments (homework, reports, etc.) may be periodically assigned.
- Participation in the lecture and laboratory includes asking and answering questions, keeping up with assigned readings, coming prepared to discuss your readings, and active participation in activities and assignments. If called upon, you are expected to be able to discuss the assigned readings.

Performance levels in the course (grade criteria):

"A" performance in this course requires an outstanding grasp of the process of science, as well as physiological concepts, relationships, and terminology. You clearly explain scientific methodology, physiological relationships, and explain potential pathophysiological consequences from errors in physiological function. This is indicated by performance at a 90% or higher level on course work.

"B" performance requires a good grasp of scientific methodology, as well as physiological concepts, relationships, and terminology. You explain physiological relationships with only minor omissions and you accurately discuss most physiological principles and interactions. A strong conceptual understanding of the interactions of physiological systems is demonstrated. This is indicated by performing at the 80% to 89.99% level on course assignments. (>87% ="B+")

"C" performance in this course requires an understanding of scientific methodology, physiological terminology, and the ability to adequately discuss many human physiology principles and relationships, although all interactions are not completely understood. This is indicated by performing at the 70% to 79.99% level on course assignments.(>77%="C+")

"D" performance indicates a minimal understanding of scientific methodology, physiological terminology, and a limited ability to discuss physiological principles and relationships other than at a superficial level. A performance at this level indicates the need for additional course work. This is indicated by performing at the 60% to 69.99% level on course assignments. (>67%="D+")

"F" performance indicates a poor understanding of the course material and principles, although you may be aware of some basic terminology. This performance indicates a need to repeat the course. This outcome is indicated by performance below the 60% level.

<i>COURSE GRADING SUMMARY:</i>	
Attendance	may deduct points
Three assessments (includes midterm)	50-55%*
Final assessment (cumulative)	25%
Quizzes, Homework	0-5%*
Laboratory Grade	20%

* may vary due to the number of quizzes, and homework grades assigned.

NOTE - FINAL COURSE GRADES WILL NOT BE "ROUNDED UP"

ADDITIONAL INFORMATION:

Students with disabilities impacting their learning are asked to inform your instructor during first two weeks of class so that accommodations may be made. If you fail to notify your instructor in advance of the first exam or other assignment, no retroactive adjustments will be made. In keeping with University policy, any student with a disability who requests academic accommodations must contact Disability Services at 503-5195 to arrange a confidential appointment with the Disability Services Coordinator. Students are encouraged to seek an appointment as early in the semester as possible, as *accommodations are not provided retroactively*. Letters of accommodation must be signed and printed on letterhead from the Disability Services office. It is the student's responsibility to provide these letters in a timely manner so that accommodations may be put in place

Laboratory registration is required, unless written permission is given by your instructor during the first week of class. Students repeating this course are NOT excused from taking a lab without written permission from their lecture instructor.

Cell phones and pagers interfere with class discussions and are to be turned off during class. If yours rings during class you will be asked to leave and counted as absent (unexcused) for the day. The only exceptions to this policy are for medical, childcare, or employment (emergency worker, etc.) reasons. If you qualify for an exception to this policy, you must notify the instructor in advance AND sit as near the exit as possible.

Exam Behavior: During exams no hats or sunglasses may be worn. All books, notes, bags, cell phones, and other personal items must be closed and put at the front of the classroom with *no course-related information visible*. Cell phones, personal digital assistants (PDA's), CD players, and other personal electronic devices may not be used during an exam unless a documented disability requires the use of such a device. Failure to follow this policy will be considered cheating.

Plagiarism (presenting other's words as your own) **and Cheating** (receiving any unauthorized help with a class activity) will not be tolerated. If you are found to have plagiarized or cheated, you will earn an "XF" for the course. If you are unsure what constitutes plagiarism or cheating, please consult your USC Upstate Student Handbook or your instructor.

Disruptive Behaviors: While freedom of speech will be respected, disruptive behavior that infringes on the education of others will not be tolerated. Removal from class, suspension or expulsion may be imposed as sanctions for disruptive behavior. In addition, it is expected that clothing that may inhibit learning (hats, sunglasses, etc.) will not be worn in class or during exams.

This is a preliminary syllabus and the instructor reserves the right to make changes and adjustments as needed to the syllabus and schedule. Changes to the syllabus will be announced in class and posted on the course web site.

Human Physiology

Tentative lecture schedule

Homework reading assignment is in **BOLD**

Week	TOPICS	Textbook Chapters
1	Intro to physiology,	1,2
2	Intro to physiology, Cell physiology, Genetics, Cell Respiration	2, 3, 4
3	Cell Respiration, Membrane transport, Nervous system	5, 6, 7
4	Labor Day – No class on Sept 7 th Nervous system	7, 8, 9
5	Nervous system, Assessment 1 Sensory physiology	8, 9 10
6	Sensory physiology	10
7	Endocrine	11
8	Endocrine, Muscular System No class on October 9 th – FALL BREAK	11, 12
9	Muscular System, Cardiovascular System, Assessment 2	12, 13, 14
10	Cardiovascular System, Blood, Immune system	13, 14, 15
11	Respiratory Physiology, Gas exchange and transport	16
<i>October 29th</i>	<i>LAST DAY TO WITHDRAW WITHOUT PENALTY</i>	
12	Renal Physiology	17
13	Digestive System Assessment 3	18
14	Reproductive Physiology	20
15	Reproductive Physiology THANKSGIVING, No class Nov. 25-27 th	20
16	Reproductive Physiology Dec 4 th = Last day of class	20
	Final Exam Week	