

Physiology (ABIO 242) Summer II 2009

Instructor:

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Lecture and Laboratory: Science Building 108 & 200; MTWTH 9AM-1:30PM

Textbook: Human Physiology by Fox

Lab Manual: PhysioEx 8.0 for Human Physiology by Stabler and Smith

Personal Laptop Computers: Recommended on days with lab exercises

Course Description/ Objectives: A survey of how human organ systems work to maintain homeostasis with particular emphasis on: internal cellular processes and the role of neurotransmitters, hormones and other cellular signals in regulating how organs function and interact with each other. A discussion of the diseases of major organ systems will highlight how important these processes are in maintaining a healthy body.

Evaluation: Your grade will be based on the following activities:

4 Lecture Exams	100 points each	400 points
4 Lab Exams	50 points each	200 points
10 Quizzes	15 points each	150 points
12 Lab Write-ups	10 points	120 points
Opportunity points	30 points	30 points

Total	900 points total
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Grading Scale:

A	810-900
B+	770-809
B	720-769
C+	680-719
C	630-679
D+	590-629
D	540-589
F	below 540

Lecture Exams: Lecture exams will cover only the material presented since the last exam. Lecture exams can not be made up unless under extraordinary, documented circumstances. Lecture exams will be composed of a combination of multiple choice, true/false, matching, short answer and essay questions.

You will **NOT** need a scantron sheet for exams.

Lab Exams: Lab exams will be worth 50 points each and will come from your lab material. It is important that you check your lab work with my lab book so you will be studying the correct answers to lab questions. Lab exams will be composed of a combination of multiple choice, true/false, matching, short answer and essay questions and will only address the labs completed since the previous lab exam.

Quizzes: Quizzes will be given every day there is not a lecture or lab exam and will address information from the previous lab or lecture meeting. These quizzes may be of any format including multiple choice, short answer, true/false, or essay. Some might be group discussion questions.

Lab Write-ups: Although labs will be completed in pairs each individual must complete the questions in their lab manual for lab write –up credit.

Opportunity points: These will be earned by writing 3-4 short (1 page) articles on current events in medicine or finding out about drugs that treat certain illnesses.

Additional Comments:

You are expected to follow the honor pledge on every assignment:

“On my honor as a University of South Carolina at Aiken student, I have neither given nor received any unauthorized aid on the assignment/examination. To the best of my knowledge, I am not in violation of academic dishonesty.”

If you have a physical, psychological and/or learning disability which might affect your performance in this course please contact the Office of Disability Services, 126A B&E, (803)641-3609 as soon as possible.

If you have questions or need help with anything in this course please email me and set up an appointment to meet. I will generally be available every afternoon but I can not guarantee I will be in my office unless you set up an appointment with me.

A note about physiology.....

If you have not taken anatomy (or a general biology course) you will find physiology difficult. I am under the assumption that you already know anatomy and will mention structure very quickly as I lecture. I don't have time in lecture to rehash the anatomy of a system. Please come see me after class if you feel you need a review of anatomy as we progress.

Physiology is less about memorizing facts and more about understanding concepts (although there will be a fair amount of memorizing to do as well). The concepts we cover early on will be repeated throughout the course as we travel through the organ systems. If you are confused about how something works please come talk to me about it as soon as possible. You may find it difficult to keep up if you don't understand concepts early on.

Your labs are designed to help you visualize how concepts work. Please think about the lecture material while you run through the labs and try to connect the two. Don't just rush through the labs in an attempt to get done quicker.

Summer II 2009 Schedule:

Date	Lecture Topic	Chapter	Lab Topic	Chapter	Quizzes & Exams
M 7-7	Chemistry of the Body	2			
T 7-8	Cells, Cell Cycle, DNA	3			Quiz 1
W 7-9	Enzymes, ATP, Cell Resp.	4&5			Quiz 2
TH 7-10	Membranes & Transport	6	Membranes	1	Quiz 3
M 7-14	Neurons & Synapses	7			Exam 1 (Ch.2-6)
T 7-15	Central & Autonomic NS	8&9	Neurons (1 st)	3	Quiz 4
W 7-16	Senses	10	Nervous System Movie		Lab Exam 1 (1,3)
TH 7-17	Endocrine Physiology	11	Endocrine	4	Quiz 5
M 7-21	Muscle Physiology	12	Muscles	2	Exam 2 (Ch.7-11)
T 7-22	Blood & Immune System	13&15	Blood	11	Quiz 6
W 7-23	Heart & Circulation	13	Heart #1	6	Lab Exam 2 (4,2,11)
TH 7-24	Blood Flow, BP, Output	14	Heart #2	5	Quiz 7
M 7-28	Respiratory Physiology	16	Respiratory	7	Exam 3 (Ch. 12-15)
T 7-29	Kidney Physiology	17	Resp./ Urinary	10	Quiz 8
W 7-30	Reproductive Physiology	20	Kidney (1 st)	9	Lab Exam 3 (6,5,7)
TH 7-31	Digestive Physiology	18	Digestive	8	Quiz 9
M 8-4	Metabolism	19			Quiz 10
T 8-5					Lab Exam 4 (10,9,8)
W 8-6	Meet at 9am				Exam 4 (Ch.16-20)

You will always take a scheduled exam or quiz **first** so make sure to be on time.

Being a summer class, the schedule is a bit grueling. The amount of information provided to you is the same as in the regular semester. This is not a “watered down” summer course. If you have a job or are taking a second class right now you might want to reconsider taking this course in the summer.

You will not have a lab exercise everyday. Some lectures are longer than others so while we may occasionally get out a little early, plan on the classes lasting the entire 4.5 hours on days with a lab activity. I will try to incorporate a 15-30 minute break each day.