

HUMAN PHYSIOLOGY - Syllabus
NROSCI 1250/BIOSCI 1250 Fall 2014

DATE	Lecture #	TOPIC	READING*
Aug 26	1	Class Intro/Introduction to Physiology and Homeostasis	Chapter 1
Aug 28	2	Membranes and the transport of molecules	Chapter 5
[Quiz 1 posted online**]			
Sep 2	3	Physiological Control Systems and Cell-Cell Communication	Chapter 6
Sep 4	4	Overview of endocrinology	Chapter 7
[Quiz 2 posted on line]			
Sep 9	5	Neurophysiology	Chapter 8
Sep 11	6	Nervous System - structure	Chapter 9 (this chapter is much more detailed than we'll cover)
[Quiz 3 posted on line]			
Sep 16	7	Nervous System – Autonomic Nervous system	Chapter 11
Sep 18	8	Muscle: Striated Muscle, Mechanisms of Contraction	Chapter 12: 398-420
Sep 23 EXAM 1 (lectures 1-7)			
Sep 25	9	Muscle: regulation of contraction, smooth & cardiac muscle	Chapter 12: 421-440 + Chapter 13: 442-444
[Quiz 4 posted on line - muscle]			
Sep 30	10	Cardiovascular: Overview, Functions, Blood, Blood Vessels	Chapter 14: 462-470 + Chapter 16: 545-556
Oct 2	11	Cardiovascular: Cardiac Function	Chapter 14: 471-507
[Quiz 5 posted on line – cardiac]			
Oct 7	12	Cardiovascular: the vascular system	Chapter 15: 508-524
Oct 9	13	Cardiovascular: Fluid Exchange, Control Mechanisms	Chapter 15: 528-533
Oct 14		no class (Monday schedule)	
[Quiz 6 posted on line –vascular]			
Oct 16	14	Cardiovascular: Control Mechanisms, Diseases, Review	Chapter 15: 524-536
Oct 21 EXAM 2 (lectures 8-14)			
Oct 23	15	Respiration: Mechanics	Chapter 17
Oct 28 [@]	16	Respiration: Gas Exchange	Chapter 18: 599-615
Oct 30	17	Respiration: Regulation	Chapter 18: 615-625
[Quiz 7 posted on line – respiration]			

Nov 4	18	Renal: Basic Mechanisms	Chapter 19
Nov 6	19	Renal: Regulation of Water and Sodium	Chapter 20: 657-680
[Quiz 8 posted on line – renal, first 2 lectures]			
Nov 11	20	Renal: Regulation of Potassium, Acid-Base Balance	Chapter 20: 681-695
Nov 13	21	Digestion	Chapter 21
Nov 18 EXAM 3 (lectures 15-20)			
Nov 20	22	Digestion/Metabolism	Chapter 22
Nov 25	23	Metabolism	Chapter 22 (continued)
[Quiz 9 posted on line – digestion and metabolism]			
Dec 2	25	Immune System	Chapter 24: 801-820
Dec 4	26	Immune System	Chapter 24: 821-834

[Quiz 10 posted on line - immunology]

EXAM 4/Final Tuesday, December 9, 10:00-11:50 am (will have questions the focus on lectures 21-26 as well as comprehensive questions that cover the entire course; approximately 60% of the exam will be on the new material and 40% will be questions that integrate over the entire course).

@ Because of scheduling conflicts, this lecture will not be given at the normally scheduled time. Instead, Dr. Sved will give the lecture at a different time (probably a day or two ahead of the scheduled day in the late afternoon or early evening) and students can either attend at this alternate time or listen to the lecture posted on the course website. (There might be other sessions like this added during the term.)

*Readings are meant to supplement the lectures and the lecture notes and to aid in your understanding of the material covered in the lectures. These reading assignments are from the 6th edition of Human Physiology: An Integrated Approach by Dee Silverthorn. If you are reading from a different text (e.g., the textbook by Widmaier that was used a couple of years ago), look at the Table of Contents from this text (I have posted a copy of this online) to see what topics are covered by each of the readings; ask if you have questions.

**Quizzes are typically posted on Thursday and will be due by the end of the day the following Monday. A few quizzes will be posted on Tuesday, and those will typically be due by the end of the day on Friday. Remember, individual quizzes contribute little to the final grade, so don't panic if you miss a quiz.

A TA review session will be scheduled for the weekend before each exam.