

This syllabus is a GUESS about the schedule for covering the course material. It can't be a contract about the precise timing, because that depends on YOU and the other students in the class. However, exam times and dates are **fixed; they will NOT change except under catastrophic circumstances (fires, floods, etc).**

Lecture	Date	Topic	Assigned reading in Silverthorn, 6th edition
1	March 30	Introduction to physiology; homeostasis and allostasis	Pages 192 - 202
2	April 1	Feedback control systems	
		<i>Control systems that regulate the rest of the body</i>	
3	April 3	Neuronal signal transmission: neurons and resting potentials (Ohm's law, the Nernst equation, and the Goldman-Hodgkin-Katz equation)	160 - 166 & 239 - 251
4	April 6	Signal transmission along axons	249 - 266
5	April 8	Signal transmission along axons and at synapses	266 - 273
6	April 10	Signal transmission at synapses	274 - 281
7	April 13	Signal transmission through chains of neurons: reflex arcs	274 - 277, 442 - 451
8	April 15	Organization of the nervous system: organizational principles, parts of the central and peripheral nervous systems	293 -298
9	April 17	Functional anatomy of the brain	299 - 311
10	April 20	Functional anatomy of the spinal cord	298 - 299
	April 22	FIRST HOUR EXAM: 7 P.M. TO 8:20 P.M. NO LECTURE (The exam will cover material <i>through</i> what we discuss in the lecture on Monday, April 20, unless you're told otherwise)	
11	April 24	Sensory and motor pathways	326 - 341, 391-393, 454 - 457
12	April 27	The brainstem, the autonomic nervous system, and the limbic system	378 - 391
13	April 29	Control by hormones: endocrine function and the hypothalamic-hypophyseal axis	207 - 211 & 216 - 227
14	May 1	The biochemistry and cell physiology of hormonal control	211 - 216
		<i>Muscular systems</i>	
15	May 4	Striated skeletal muscle: molecular mechanisms that generate force	399 - 416
16	May 6	Striated skeletal muscle: organ physiology	417 - 423

Lecture	Date	Topic	Silverthorn, 6th edition
17	May 8	Smooth muscle	426 - 435
		<i>Cardiovascular system</i>	
18	May 11	Introduction to cardiovascular system; cardiac anatomy	463 - 466, 471 - 475
19	May 13	Cellular cardiac physiology, myogenic contraction	475 - 482
20	May 15	Signal conduction through the heart; the electrocardiogram	483 - 490
21	May 18	More on the EKG; cardiac mechanics	491 - 501
	May 20	SECOND HOUR EXAM, 7 P.M. TO 8:20 P.M. NO LECTURE (The exam will cover material <i>through what we discuss in the lecture on Monday, May 18, unless you're told otherwise</i>)	
22	May 22	Hemodynamics: The systemic and pulmonary circulatory loops; Ohm's law for flow; linear velocity	466 - 471
	May 25	MEMORIAL DAY HOLIDAY (No lecture, discussion sections, or office hours)	
23	May 27	Hemodynamics & transfer of materials between blood and tissues	528 - 533
24	May 29	Regulation of cardiac output	513 - 528
25	June 1	Regulation of blood pressure	
		<i>Renal physiology and the regulation of body fluids</i>	
26	June 3	Body fluid compartments	
27	June 5	Structure and function of the kidneys	627-644

The final exam in this course is scheduled at 8 to 10:59 a.m. on Wednesday, June 10. See the General Information link on the course Web site to read what YOU must know about exams in this class.