This syllabus is a good GUESS about the schedule for covering the course material. It cannot be a promise about the precise timing because that depends on YOU and the other students in the class.

Lecture	Date	Topic	Assigned reading in Silverthorn, 6th edition	Assigned reading in Silverthorn, 5th edition
1	April 1	Introduction to physiology; homeostasis and allostasis	Pages 192 - 202	Pages 196-209
		Control systems that regulate the rest of the body		
2	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	164-171 & 247-257
3	April 5	Neuronal signal transmission: action potentials	251 - 265	257-272
4	April 8	Communication between neurons: synaptic transmission	266 - 273	273-289
5	April 10			
6	April 12	Information processing: reflex arcs	274 - 281 & 443 - 452	447-456
7	April 15	Organization of the nervous system: parts of the central and peripheral nervous systems	291 - 311	296-318
8	April 17	Sensory pathways	335 - 341	334-349
9	April 10	Motor pathways	393 - 393	457-463
10	April 22	The brainstem, the autonomic nervous system, and the limbic system	379 - 391	386-398, 318-322
	April 24	**FIRST HOUR EXAM: 8 P.M. TO 9:20 P.M.** **NO LECTURE** (No lecture or problem-solving session; exam covers material *through the lecture on Monday, April 22)*		
11	April 26	Control by hormones: endocrine function and the hypothalamus-hypophyseal axis	207 - 211 & 216 - 227	215-235
12	April 29	The biochemistry and cell physiology of hormonal control	211 - 216	
		Muscular system		
13	May 1	Striated skeletal muscle: molecular mechanisms for generating force	399 - 416	408-422
14	May 3	Striated skeletal muscle: organ physiology		
15	May 6	Smooth muscle	426 - 435	432-441

Lecture	**Date**	**Topic**	**Assigned reading in Silverthorn, 6th edition**	**Assigned reading in Silverthorn, 5th edition**
		Cardiovascular system		
16	May 8	Introduction to cardiovascular system; cardiac anatomy	463 - 466	468-471, 478-481
17	May 10	Cellular cardiac physiology, myogenic contraction	471 - 482	481-487
18	May 13	Signal conduction through the heart; the electrocardiogram	483 - 490	487-494
19	May 15	More on the EKG		---
20	May 17	Cardiac mechanics	491 - 501	494-502
21	May 20	Hemodynamics: The systemic and pulmonary circulatory loops, Ohm's law for flow, and linear velocity	466 - 471	512-524
	May 22	**SECOND HOUR EXAM, 8 P.M. TO 9:20 P.M. NO LECTURE** (No lecture or problem-solving session; exam covers material *through the lecture on Monda,y May 20*)		
22	May 24	Hemodynamics & transfer of materials between blood and tissues	528 - 533	471-478, 526-532
	May 27	**MEMORIAL DAY HOLIDAY**--No lecture, no sections		
23	May 29	Regulation of cardiac output	513 - 528	486-487, 501-505
24	May 31	Regulation of blood pressure		516-526, 532-535
		Renal physiology and the regulation of body fluids		
25	June 3	Body fluid compartments; structure and function of the kidneys	627 - 633	54-58, 133-152, 158-163, 623-645
26	June 5	Renal cortex: filtration and reabsorption	634 - 650	----
27	June 7	Renal medulla: gradients, water permeability, and ADH	660 - 663	651-662
---	If there's time	Other hormones that affect renal function	663 - 673	662-666

The final exam in this course is scheduled at 8 a.m. on Wednesday, June 12. See the General Information link on the course Web site for what YOU <u>need</u> to know about exams in this class.