This syllabus is a good guess about the rate at which we'll cover the course material. It is not a promise about the precise timing.

Lecture	Date	Topic	Assigned reading in Silverthorn, 5th edition	Assigned reading in Silverthorn, 4th edition
1	March 28	Introduction to physiology; homeostasis and allostasis	196-209	191-205
		Control systems that regulate the rest of the body		
2	March 30	Neuronal signal transmission: neurons and resting potentials	164-171, 247-257	244-253
3	April 1	Neuronal signal transmission: action potentials	257-272	253-269
4	April 4	Communication between neurons: synaptic transmission	273-289	270-283
5	April 6	Information processing: reflex arcs	447-456	439-445
6	April 8	Organization of the nervous system: parts of the central and peripheral nervous systems	296-318	294-312
7	April 11	Sensory pathways	334-349	328-342
8	April 13	Motor pathways	457-463	389-390
9	April 15	The brainstem, the autonomic nervous system, and the limbic system	386-398, 318-322	379-389, 315-317
10	April 18	Control by hormones: endocrine function and the hypothalamus-hypophyseal axis	215-235	212-232
	April 20	**FIRST HOUR EXAM: 7 P.M. TO 8:20 P.M. NO LECTURE (**No lecture or problem-solving session; exam covers material *through whatever we talk about in the lecture on Monday, April 18*)		
11	April 22	The biochemistry and cell physiology of hormonal control		
		Muscular system		
12	April 25	Striated skeletal muscle: molecular mechanisms for generating force	408-422	397-413
13	April 27	Striated skeletal muscle: organ physiology	423-432	413-421
14	April 29	Smooth muscle	432-441	421-429

Lecture	Date	Topic	Assigned reading in Silverthorn, 5th edition	Assigned reading in Silverthorn, 4th edition
		Cardiovascular system		
15	May 2	Introduction to cardiovascular system; cardiac anatomy	468-471, 478-481	457-460, 465-468
16	May 4	Cellular cardiac physiology, myogenic contraction	481-487	490-494
17	May 6	Signal conduction through the heart; the electrocardiogram	487-494	477-483
18	May 9	More on the EKG	---	---
19	May 11	Cardiac mechanics	494-502	484-489
	May 13	Hemodynamics: The systemic and pulmonary circulatory loops	512-524	501-504
20	May 16	Hemodynamics, transfer of materials between blood and tissues	471-478, 526-532	460-464, 504-519
	May 18	**SECOND HOUR EXAM, 7 P.M. TO 8:20 P.M., NO LECTURE** (No lectures or problem-solving session; exam covers material *through the lecture on Monday, May 16*)		
21	May 20	Regulation of cardiac function	486-487, 501-505	489-494, 521-525
22	May 23	Regulation of blood pressure	516-526, 532-535	504-513, 521-525
		Renal physiology and the regulation of body fluids		
23	May 25	Body fluid compartments; structure and function of the kidneys	54-58, 133-152, 158-163, 623-645	51 & 52,72-76, 614-145
25	May 27	Renal cortex: filtration and reabsorption	----	----
	May 30	**MEMORIAL DAY HOLIDAY**		
26	June 1	Renal medulla: gradients and water permeability	651-662	642-652
27	June 3	Antiduretic hormone and other hormones that affect renal function	662-666	652-663

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