

Lecture #	Date	Topic	Assigned reading Silverthorn, 6 <sup>th</sup> ed	Assigned reading Silverthorn, 7 <sup>th</sup> ed
1	Sept 24	<b>Introduction:</b> homeostasis; negative and positive feedback	192-201	182-91
		<b><i>Control systems that regulate body function</i></b>		
2	Sept 29	Neurons and resting potentials Electrical signal transmission: action potentials	160-8, 238-49 249-66	153-60; 227-36 237-52
3	Oct. 1	Communication among neurons: synaptic transmission	266-82	253-69
4	Oct. 6	Simple neuronal systems: reflex arcs	442-52	418-26
5	Oct. 8	Complex neuronal systems: anatomy of the central nervous system (CNS) and the peripheral nervous systems (PNS)	289-309	275-96
6	Oct. 13	Sensory pathways Motor pathways	326-41 452-8	310-24 426-31
7	Oct. 15	Brainstem, autonomic nervous system (ANS), limbic system	312-14; 378-91	298-9; 359-71
8	Oct. 20	Control by hormones: endocrine function; the hypothalamus-hypophyseal axis; hormonal control mechanisms	207-227	197-216
	Oct. 22	***In class: review for the first midterm exam***		
	Oct. 22	<b>FIRST MIDTERM EXAM: 7:00 TO 8:20 PM.</b> Covers material through the lecture on Tuesday, 10/20. Location: to be announced		
		<b><i>Muscular systems</i></b>		
9	Oct. 27	Striated skeletal muscle: structure and function	399-425	378-403
10	Oct. 29	Smooth muscle	426-35	403-11

Lect. #	Date	Topic	Silverthorn 6 <sup>th</sup> ed	Silverthorn 7 <sup>th</sup> ed
		<b><i>Cardiovascular system</i></b>		
11	Nov. 3	Introduction to cardiovascular system; cardiac anatomy	463-6; 471-82	436-9; 443-54
12	Nov. 5	Signal conduction through the heart; ECG; mechanics	482-97	454-68
13	Nov. 10	Hemodynamics, transfer of materials between blood and tissues	466-71; 497-501 524-33	439-43; 468-72; 492-501
14	Nov. 12	Cardiovascular control mechanisms	509-28	478-96
15	Nov. 17	Body fluid compartments; osmosis; tonicity	63-6; 130-154	59-61; 123-147
	Nov. 19	***In class: review for the second midterm exam***		
	Nov. 19	<b>SECOND MIDTERM EXAM: 7:00 PM TO 8:20 PM.</b> Exam covers material through lecture on Monday, 11/19. Location: to be announced		
		<b><i>Kidney: regulation of body fluids</i></b>		
16	Nov. 24	Kidney structure and function Renal cortex: filtration, reabsorption, secretion	627-33 634-51	590-6 596-613
17	Dec. 1	Renal medulla: gradients and water permeability	658-69	619-30
18	Dec. 3	Endocrine control of renal function Systems control of body fluids	669-75 675-81	660-36 636-41

**The final exam is scheduled from 11:30 AM to 2:30 PM on Wednesday, December 9.**