

**PHYSO 101 - HUMAN PHYSIOLOGY  
- FALL 2011 -**

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<i>Date</i>	<i>Lecture Topic</i>	<i>Silverthorn (chp)</i>	<i>Ward Synopsis (chp)</i>	<i>Laboratory Topic Ward - Laboratory Exercise (pages)</i>
Aug 30 T week 1	Introduction to Physiology Cell and Tissue Compartmentation	(1) (3) (2)	(1) (2) (3)	Diagramming and Interpreting Regulatory Systems (Lab) (p1) Biomolecular Modeling (Lab) (p3), part 1
Sep 01 TH	Molecular Interactions	(2)	(3)	
Sep 06 T week 2	Molecular Interactions Energy and Cellular Metabolism	(2) (4)	(3) (4)	Biomolecular Modeling (Lab) (p3), part 2 DNA and Protein Synthesis (Lab) (p10)
Sep 08 TH	Energy and Cellular Metabolism	(4)	(5)	
Sep 13 T week 3	Membrane Dynamics	(5)	(6)	Transport Mechanism and Membrane Permeability (Lab) (p20) Solutions and Osmolality (Lab) (p112)
Sep 15 TH	<b>Exam # 1</b>			
Sep 20 T week 4	Communication, Integration and Homeostasis	(6)	(7)	Chemical Communication – Hormones (pseudo-lab)
Sep 22 TH	Introduction to the Endocrine System	(7)	(14)	
Sep 27 T week 5	Neurons: Cellular and Network Properties	(8)	(8)	Modeling the Action Potential (Lab) (p26) Synaptic Integration (Lab) (p34)
Sep 29 TH	Neurons: Cellular and Network Properties	(8)	(8)	
Oct 04 T week 6	Sensory Physiology	(10)	(9)	Somatosensory Psychophysics (Lab) (p39) Vision (Lab) (p50)
Oct 06 TH	Sensory Physiology	(10)	(10)	
Oct 11 T week 7	<b>Exam # 2</b>			Hearing – Sound Localization (Lab) (p47) Vestibular Reflexes and Eye Tracking (Lab) (p63)
Oct 13 TH	Sensory Physiology	(10)	(10)	
Oct 18 T week 8	Efferent Division: Autonomic and Somatic Motor Control Muscles	(11) (12)	(13) (11)	Grip Strength and Electromyogram (EMG) (Lab) (iWorx HM-1) (p68) (appendix) Autonomic Pathways (Lab) (p69)
Oct 20 TH	Muscles Control of Body Movement	(12) (13)	(11) (12)	

Oct 25 T week 9	Cardiovascular Physiology	(14)	(16)	The Electrocardiogram and Peripheral Circulation (Lab) (iWorx HH-3) (p79) (appendix) Blood Pressure (Lab) (p80)
Oct 27 TH	Cardiovascular Physiology Blood Flow and the Control of Blood Pressure	(14) (15)	(17)	
Nov 01 T week 10	<b>Exam # 3</b>			Cardiovascular Reflexes (Lab) (p84) Blood Analysis and Hemostasis (Lab) (p87)
Nov 03 TH	Blood Flow and the Control of Blood Pressure Blood	(15) (16)	(18)	
Nov 08 T week 11	Mechanics of Breathing	(17)	(19)	Respiratory System and Spirometry (Lab) (p96) Respiratory Control (Lab) (p102)
Nov 10 TH	Gas Exchange and Transport	(18)	(19)	
Nov 15 T week 12	The Kidneys	(19)	(20)	Urine Composition and Fluid Balance (Lab) (p105)
Nov 17 TH	Fluid and Electrolyte Balance	(20)	(20)	
Nov 22 T week 13	<b>Exam # 4</b>			No Lab  <b>Thanksgiving Holiday</b>
Nov 24 TH	<b>Thanksgiving Holiday</b>			
Nov 29 T week 14	The Digestive System	(21)	(21)	Chemical and Physical Processes of Digestion (Lab) (p118)
Dec 01 TH	Metabolism and Energy Balance	(22)	(21)	
Dec 06 T week 15	Endocrine Control of Growth and Metabolism	(23)	(21)	Endocrine System Physiology, (Lab) PhysioEx #4 (p128) (appendix) Glucose Monitoring and Homeostasis (Lab) (p129)
Dec 08 TH	Reproduction and Development	(25)	(22)	
Dec 15 TH	<b>Final Exam: 10 00 AM – 12:50 PM Sci Room 208</b>			