

PHYSO 101 - HUMAN PHYSIOLOGY
- SPRING 2007 -

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<i>Date</i>	<i>Homework/Laboratory Topic (Ward Lab Manual)</i>	<i>Lecture Topic (Ward Physiology Book)</i>	<i>Germann 2/E</i>
Jan 9 T	Water (chemCD) (p112) Acids, Bases and pH (chemCD) (p113) Diagramming and Interpreting Regulatory Systems (Lab) (p6)	Communication, Control and Homeostasis (1) Cellular Anatomy (2)	1,2
11 TH	pH, Buffers and Osmolarity (Lab) (p114)	Cellular Chemistry and Biomolecules (3)	2, 3
16 T	Carbohydrates (chemCD) (p8) Lipids (chemCD) (p9) Biomolecular Modeling (Lab) (p11)	Cellular Chemistry and Biomolecules (3) and Cellular Reactions and Enzymes (4)	2, 3
18 TH	Proteins (chemCD) (p10) Enzymes and Reactions (chemCD) (p15) Biomolecular Modeling (Lab) (p11)	DNA, RNA, and Protein Synthesis (5)	3
23 T	Nucleic Acids (chemCD) (p16) DNA and Protein Synthesis (Lab) (p17)	Cell Membrane Transport (6)	2,4
25 TH	Transport Mechanism and Membrane Permeability (Lab) (p27)	Chemical Messengers (7)	2, 5
30 T	Modeling of Chemical Messengers (Lab) (p34)	Exam # 1	5
Feb 1 TH	Neuron Anatomy; Ion Channels (ipCD) (p46) Membrane Potentials: Action Potentials (ipCD) (p47) Modeling the Action Potential (Lab) (p48)	Neural Communication (8)	8, 9
6 T	Synaptic Transmission and Neurotransmitters (ipCD) p56 Synaptic Physiology Model (Lab) p57	Sensory Neurons and Sensation (9)	9, 11

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8 TH	Somatosensory Psychophysics (Lab) (p158) Modeling of Somatosensory Pathways (Lab) (p163)	Hearing and Balance Taste and Smell (10)	11
13 T	Hearing - Sound Localization (Lab) (p185) Equilibrium - Balance and Eye Tracking (Lab) (p188) Taste and Smell (Lab) (p193)	Vision (10)	11
15 TH	Vision (Lab) (p172) Peripheral Vision and Visual Pathways (Lab) (p179)	Skeletal Muscle (11)	11, 13
20 T	Muscle Anatomy, Neuromuscular Junction, Sliding Filament, (ipCD) (p196)	Exam # 2	13
22 TH	EMG and Reflexes (Lab) (p198)	Cardiac and Smooth Muscle (11)	12, 13
27 T	Motor Units, Contraction of Whole Muscles (ipCD) (p197)	Motor Neurons and Movement (12)	12, 13
Mar 1 TH	Modeling of Motor pathways (addendum)	Autonomic Nervous System (13)	12
6 T	Endocrine System Review (ipCD) (p71) Biochemistry and Secretion of Hormones (ipCD) (p69)	Hormonal Communication and Endocrine Glands (14)	6
8 TH	Actions of Hormones on Target Cells (ipCD) (p70)	Hypothalamus, Pituitary and Stress (15)	6
13 T	Hypothalamus and Pituitary (ipCD) (p72) Stress, Epinephrine and Cortisol (ipCD) (p63) Stress (Lab) (p64)	Exam # 3	6, 7
15 TH	Heart Anatomy, Conduction System, (ipCD) (p76) Cardiac Action potential and Cycle (ipCD) (p7)	Cardiac Pumping (16)	14

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20 T	EKG (Lab) (p78) Cardiac Pulse (Lab) (p83)	Cardiac Output (16) Blood vessels and Blood Flow (17)	14, 15
22 TH	Blood Pressure and Blood Pressure Regulation (ipCD) (p92) Cardiovascular Reflexes (Lab) (p97)	Blood vessels and Blood Flow (17) Blood and Microcirculation (18)	15
27 T	Blood Analysis and Hemostasis(Lab) (p100)	Ventilation (19)	16, 17
29 TH	Lung Anatomy, Pulmonary Ventilation, (ipCD) (p132) Respiratory System and Spirometry (Lab) (p133)	Gas Exchange and Transport (19)	17, 18
Apr 3 T	Gas Exchange, Gas Transport, (ipCD) (p139) Respiratory Control (Lab) (p140)	Exam # 4	18
5 TH	Digestion (ipCD) (addendum) Chemical and Physical Processes of Digestion (Lab) (p146)	Digestion (20)	21
10 T	Digestion (ipCD) (addendum) Glucose Monitoring (Lab) (p73)	Nutrient Metabolism (20)	7
12 TH	Renal Anatomy Filtrate Formation, (ipCD) (p119) Renal Filtrate Processing, (ipCD) (p120) Urinalysis (Lab) (p121)	Filtrate and Urine Formation (21)	19
17 T	Fluid, Electrolyte, Acid-Base Balance (ipCD) (p127) Fluid Balance (Lab) (p128)	Fluid and Electrolyte Balance (21)	20
19 TH	Reproduction and Reproductive Cycles (22)	Exam # 5	22
24T		FINAL EXAM Sci Room 213 10:00 AM -12:50 PM	