

**PHYSO 101 – HUMAN PHYSIOLOGY
– SPRING 2020 TTH Lec –
T Lab (sec 9264) / TH Lab (sec 9263)**

[[Synopsis of Physiology for Allied Health](#)]

[[Laboratory Exercises for Physiology](#)]

[[Course Description](#)]

Date	Lecture Topic (Ward – Synopsis of Physiology) MSCC room 227; 10:20A-11:45A	Chp (#)	Laboratory (Ward - Laboratory Exercises) MSCC room 210; 11:55A-3:00P	Lab #
Jan 14 T week 1	Introduction: What is Physiology? Communication, Control and Homeostasis	(1)	Diagramming Regulatory Systems	1
Jan 16 TH	Physiology and Biological Chemistry	(2)	Metric System	2
Jan 21 T week 2	Cellular Reactions, Enzymes and Nucleotides	(3)	Biomolecular Modeling	3
Jan 23 TH	DNA, RNA and Protein Synthesis Cell	(4)	DNA, RNA, and Protein Synthesis	4
Jan 28 T week 3	Exam # 1 SCC room 227; 10:20A-11:15A (Text chp 1-4; Lab # 1-4) Cell Membrane Transport	(5)	Cell Membrane Transporters [text chp (5)]	Dis 5
Jan 30 TH	Cellular Signaling and Cellular Receptors	(6)	Membrane Permeability and Transport, pt 1	
Feb 04 T week 4	Neuron physiology and Neural Signaling	(7)	Synaptic Integration	7
Feb 06 TH	Organization of General Sensory Neurons	(8)	Somatosensory Psychophysics	8
Feb 11 T week 5	Exam # 2 SCC room 227; 10:20A-11:15A (Text chp 5-8; Lab # 5,7,8) Special Sensory Neurons - Hearing	(9)	Vision	10
Feb 13 TH	Special Sensory Neurons - Vision	(9)	Visual Fields and Visual Pathways	11
Feb 18 T week 6	Muscle Contraction	(11)	Grip Strength and Electromyogram (EMG)	12
Feb 20 TH	Somatic Motor Neurons and Control of Movement	(12)		

Feb 25 T week 7	Exam # 3 SCC room 227; 10:20A-11:15A (Text chp 9,11,12; Lab # 10-12) Autonomic Motor Neurons	(13)	Autonomic Control of Internal Organs [text chp (13)]	Dis 13
Feb 27 TH	Hormones, and Control of Internal Organs Adrenal Medulla, Pancreas, Parathyroid	(14)	Autonomic Pathways	
Mar 03 T week 8	Hypothalamus, Pituitary, Adrenal Cortex, Thyroid	(15)	Endocrineology (PhysioEx™ 9.0, Exercise 4, Activity 1-2	14
Mar 05 TH	Hormones and Control of Internal Organs	(14) (15)	Activity 3-4)	15
Mar 10 T week 9	Exam # 4 SCC room 227; 10:20A-11:15A (Text chp 13-15; Lab # 13-14) Cardiac Pumping and Cardiac Output	(16)	Exercise, Electrocardiogram (ECG) and Peripheral Circulation	17
Mar 12 TH	Cardiac Pumping and Cardiac Output	(16)		
Mar 17 T week 10	Blood Vessels and blood flow	(17)	Blood Pressure and Cardiovascular Reflexes	18
Mar 19 TH	Blood and Microcirculation	(18)	Blood Analysis	19
Mar 24 T week 11	Exam # 5 SCC room 227; 10:20A-11:15A (Text chp 16-18; Lab # 15-19) Ventilation	(19)	Respiratory System and Spirometry	20
Mar 26 TH	Ventilation, Gas Exchange, and Gas transport	(19)	Respiratory Control	21
Mar 31 T week 12	Renal Filtration and Urine Formation	(20)	Urine Composition and Fluid Balance	22
Apr 02 TH	Fluid, Electrolyte, and Acid-Base Balance	(21)		
Apr 07 T week 13	Exam # 6 SCC room 227; 10:20A-11:15A (Text chp 19-21; Lab # 20-22) Digestion	(22)	Solutions and Osmolarity	23
Apr 09 TH	Digestion and Nutrient Absorption	(22)	Metabolism [text chp (23)]	Dis
Apr 14 T week 14	Absorptive and Post-absorptive Metabolism	(23)	Glucose Monitoring and Homeostasis	26
Apr 16 TH	Control of Reproductive Organs	(24)		
Apr 21 T week 15	Control of Reproductive Organs	(24)	Presentations of Summaries of Articles	Dis

Apr 23 TH	Exam # 7 SCC room 227; 10:20A-11:45A (Text chp 22-24; Lab # 20-22, 26)			
Apr 28 T	Final Exam SCC room 227; 10:00A-12:50P (From Scantron part of exams 1-6)			