

2007 HUMAN PHYSIOLOGY LECTURE SCHEDULE 11/15/2007

DATE & TIME	LECTURES & OTHER SESSIONS - Room Assignments	Prob Set	Instructor
	Section 1: Body Fluid, Membrane, and Muscle Physiology		
Thurs, Jan 3 8:30 – 9:30	Introduction and Essential Information about the Course		Dr. Kreisman
Fri, Jan 4 8:30 – 9:30	Diffusion & Osmosis		Dr. Kreisman
Mon, Jan 7 8:30 – 9:30	Transport		Dr. Kreisman
Tues, Jan 8 8:30 – 9:30	Body Fluids & Compartments I	✓	Dr. Navar
Wed, Jan 9 8:30 – 9:30	Body Fluids & Compartments II	✓	Dr. Navar
Thurs, Jan 10 8:30 – 9:30	Physiology of Excitable Cells I: <i>Transmembrane Potentials</i>	✓	Dr. Kreisman
Fri, Jan 11 8:30 – 9:30	Physiology of Excitable Cells II: <i>Passive vs. Active Properties of Membranes</i>		Dr. Kreisman
Mon, Jan 14 8:30 – 9:30 3:00 – 5:00	Physiology of Excitable Cells III <i>Action Potentials & Ion Channels</i> Body Fluid Problem-Solving Session Whole Class (Room #6065)		Dr. Kreisman Dr. Navar
Tues, Jan 15 8:30 – 9:30	Physiology of Excitable Cells IV: <i>Ionic Mechanisms and Excitability</i>		Dr. Kreisman
Wed, Jan 16 8:30 – 9:30	Physiology of Excitable Cells V: <i>Nerve Trunks and Tracts</i>		Dr. Kreisman
Thurs, Jan 17 8:30 – 9:30	Physiology of Excitable Cells VI: <i>The Neuromuscular Junction & PSPs</i>		Dr. Kreisman
Fri, Jan 18 8:30 – 9:30	Physiology of Excitable Cells VII: <i>Transmitter Release; Integration</i>		Dr. Kreisman
Mon, Jan 21	MARTIN LUTHER KING HOLIDAY		
Tues, Jan 22 8:30 – 9:30	Muscle Physiology I: <i>Skeletal Muscle Structure; Molecular Basis of Contraction</i>		Dr. Li
Wed, Jan 23 8:30 – 9:30	Muscle Physiology II: <i>Mechanical Properties; Contractile force; Motor Unit</i>		Dr. Li
Thurs, Jan 24 8:30 – 9:30	Muscle Physiology III: <i>Smooth Muscle</i>		Dr. Li
	Section 2: Cardiovascular Physiology		
Fri, Jan 25 8:30 – 9:30	Principles of Cardiac Excitation & Contraction I		Dr. Clarkson
Mon, Jan 28 8:30 – 9:30 3:00 - 5:00	Principles of Cardiac Excitation & Contraction II: <i>Cardiac Membrane Potentials & Action Potentials</i> Excitable Cell Problem-Solving Session Whole Class (Room #6065)		Dr. Clarkson Dr. Kreisman
Tues, Jan 29 8:30 – 9:30	The Normal Electrocardiogram: <i>Standard Leads, Einthoven's Triangle</i>		Dr. Clarkson
Wed, Jan 30 8:30 – 9:30	Cardiac Arrhythmias: <i>Ectopic Pacemakers; Ectopic Rhythms</i>		Dr. Clarkson
Thurs, Jan 31 8:30 – 9:30	The Cardiac Pump: <i>Cardiac Output, Work and Efficiency</i>		Dr. Majid
Fri, Feb 1 9:00 – Noon	Biochemistry EXAM 1		
Mon – Tues Feb 4 & 5	Mardi Gras Holidays		
Wed, Feb 6	No Classes – Study Day		
Thurs, Feb 7	No Physiology Class		
Fri, Feb 8 9:00 - Noon	Physiology EXAM 1 - Body Fluid, Membrane, Muscle, & Cardiac Physiology (21 lectures)		

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Mon, Feb 11 9:00 – Noon 1:00 – 1:50	Neuroscience EXAM 1 The Cardiac Cycle I & II	✓	Dr. Majid
Tues, Feb 12 8:30 – 9:30 1:00 – 5:00	Lecture: Physical Diagnosis – Heart Sounds JOINT PHYSIOLOGY – FIM - PHYSICAL DIAGNOSIS SESSION <i>1/4 of class– Bring your stethoscope & white coat.</i>		Dr. Wiese Dr. Wiese et al.
Wed, Feb 13 8:30 – 9:30 3:00 - 5:00	Regulation of Heart Rate and Contractility: <i>Autonomic Effects</i> PBL: PRUNE DREYFOUS Assigned PBL Groups ½ of class		Dr. Kadowitz
Thurs, Feb 14 8:30 – 9:30 1:00 – 5:00	Hemodynamics I: <i>Physical Determinants of Blood Flow</i> JOINT PHYSIOLOGY – FIM - PHYSICAL DIAGNOSIS SESSION <i>1/4 of class– Bring your stethoscope & white coat.</i>		Dr. Matrougui Dr. Wiese et al.
Fri, Feb 15 8:30 – 9:30	Hemodynamics II: <i>Arterial & Venous System; Capillary Pressure & Flow</i>	✓	Dr. Matrougui
Mon, Feb 18 8:30 – 9:30 3:00 - 5:00	Local Control of the Vasculature PBL: PRUNE DREYFOUS Assigned PBL Groups ½ of class	✓	Dr. Kadowitz
Tues, Feb 19 8:30 – 9:30 1:00 – 5:00	Regulation of Regional Vascular Beds JOINT PHYSIOLOGY – FIM - PHYSICAL DIAGNOSIS SESSION <i>1/4 of class– Bring your stethoscope & white coat.</i>		Dr. Kadowitz Dr. Wiese et al.
Wed, Feb 20 8:30 – 9:30 3:00 - 5:00	Regulation of Arterial Pressure - Short Term PBL: WILLIAM SHORT Assigned PBL Groups ½ of class		Dr. Kadowitz
Thurs, Feb 21 8:30 – 9:30 1:00 – 5:00	Cardiac Output (CO) and Venous Return JOINT PHYSIOLOGY – FIM - PHYSICAL DIAGNOSIS SESSION <i>1/4 of class– Bring your stethoscope & white coat.</i>	✓	Dr. Kadowitz Dr. Wiese et al.
Fri, Feb 22 8:30 – 9:30	Circulatory Shock: <i>Characteristics & Causes; Classification</i>		Dr. Kadowitz
Section 3: Renal and Acid-Base Physiology			
Mon, Feb 25 8:30 – 9:30 3:00 - 5:00	Renal Function and Hemodynamics PBL: WILLIAM SHORT Assigned PBL Groups ½ of class		Dr. Navar
Tues, Feb 26 8:30 – 9:30	Regulation of GFR and Clearance Concept	✓	Dr. Navar
Wed, Feb 27 8:30 – 9:30 3:00 – 5:00	Proximal Tubule Transport Mechanisms: <i>Active vs Passive Reabsorption; Glomerulotubular Balance</i> GFR Problems – Whole class		Dr. Mitchell Dr. Navar
Thurs, Feb 28 8:30 – 9:30	Loop of Henle & Countercurrent System : <i>Urinary Concentration & Dilution; Countercurrent Mechanisms</i>		Dr. Mitchell
Fri, Feb 29 8:30 – 9:30	Distal Tubule and Collecting Duct: <i>Sodium & Fluid Reabsorption; K⁺ Secretion; ADH</i>		Dr. Mitchell
Mon, Mar 3 8:30 – 9:30 1:00 - 3:00	Renal Hormones PBL: IP SWEET Assigned PBL Groups ½ of class		Dr. Mitchell Dr. Navar
Tues, Mar 4 8:30 – 9:30	Role of the Kidneys in Hypertension: <i>Long-term Regulation of Blood Pressure</i>		Dr. Navar
Wed, Mar 5 8:30 – 9:30 3:00 – 5:00	Mechanisms of Acid Base Balance I PBL: IP SWEET Assigned PBL Groups ½ of class		Dr. Hamm
Thurs, Mar 6 8:30 – 9:30	Mechanisms of Acid Base Balance II		Dr. Hamm
Fri, Mar 7 8:30 – 9:30	Clinical Correlation: <i>Acid-Base and Electrolyte Disorders</i>		Dr. Hamm

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Mon, Mar 10 9:00 - Noon	Neuroscience EXAM 2		
Tues, Mar 11	No Classes – Study Day		
Wed, Mar 12 9:00 - Noon	Biochemistry EXAM 2		
Thurs, Mar 13	No Classes – Study Day		
Fri, Mar 14 9:00 - Noon	Physiology EXAM 2 - Cardiovascular and Renal Physiology (19 lectures)		
Mon – Fri Apr 17-21	Spring Break		
	Section 4: Pulmonary Physiology		
Mon, Mar 24 8:30 – 9:30	Respiratory Mechanics I (Levitzky 6 th edition, pp. 1-31)	✓	Dr. Levitzky
Tues, Mar 25 8:30 – 9:30	Respiratory Mechanics II (Levitzky 6 th edition, pp. 32-53)		Dr. Levitzky
Wed, Mar 26 8:30 – 9:30	Alveolar Ventilation (Levitzky 6 th edition, pp. 54-85): <i>Dead Space; Regional Distribution of Ventilation</i>		Dr. Levitzky
Thurs, Mar 27 8:30 – 9:30	Pulmonary Blood Flow (Levitzky 6 th ed, pp. 86-112)		Dr. Levitzky
Fri, Mar 28 8:30 – 9:30	Ventilation-Perfusion Relationships (Levitzky 6 th ed, pp. 113-129)		Dr. Levitzky
Mon, Mar 31 8:30 – 9:30 3:00 – 5:00	Diffusion (Levitzky 6 th edition, pp. 130-141) PBL: BIG PUFF Assigned PBL Groups ½ of class		Dr. Levitzky
Tues, Apr 1 8:30 – 9:30	Transport of Respiratory Gases in Blood (Levitzky 6 th ed, pp. 142-162)		Dr. Levitzky
Wed, Apr 2 8:30 – 9:30 3:00 – 5:00	Neural & Chemical Control of Respiration PBL: BIG PUFF Assigned PBL Groups ½ of class		Dr. Levitzky
Thurs, Apr 3 8:30 – 9:30 9:45 – 10:45	Acid-Base Balance The Respiratory System Under Stress: (Levitzky 6 th ed, pp. 228-247)	✓	Dr. Levitzky Dr. Levitzky
Fri, Apr 4 8:30 – 9:30	No Physiology Class		
	Section 5: Gastrointestinal Physiology		
Mon, Apr 7 8:30 – 9:30	GI Epithelial Barrier Function		Dr. Orlando
Tues, Apr 8 8:30 – 9:30 9:45 – 10:45	GI Motility I: <i>Regulation of swallowing and gastric emptying</i> GI Motility II: Small & Large Bowel		Dr. Orlando Dr. Orlando
Wed, Apr 9 8:30 – 9:30 9:45 – 10:45	GI Secretions I: Mouth and Salivary Glands GI Secretions II: Stomach		Dr. Orlando
Thurs, Apr 10 8:30 – 9:30	No Physiology Class		Dr. Orlando
Fri, Apr 11 8:30 – 9:30	GI Secretions III: The Pancreas		Dr. Copur
Mon, Apr 14 8:30 – 9:30	GI Secretions IV: The Liver		Dr. Joshi
Tues, Apr 15 8:30 – 9:30	GI Digestion and Absorption I: Small Intestine Part I		Dr. Abdounour-Nakhoul
Wed, Apr 16 8:30 – 9:30	GI Digestion and Absorption II: Small Intestine Part II		Dr. Abdounour-Nakhoul

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Thurs, Apr 17	FIM DAY		
Fri, Apr 18 8:30 – 9:30	GI Digestion and Absorption III: Large Intestine		Dr. Abdounour-Nakhoul
Mon, Apr 21 9:00 - Noon	Physiology EXAM 3 - Pulmonary and GI Physiology (20 lectures)		
Tues, Apr 22	No Classes – Study Day		
Wed, Apr 23 8:30 - Noon	Neuroscience EXAM 3		
Thurs, Apr 24	No Classes – Study Day		
Fri, Apr 25 1:00 – 4:00	Biochemistry EXAM 3		
	Section 6: Endocrine Physiology		
Mon, Apr 28 8:30 – 9:30 1:00 – 5:00	Hormone Structure and Function : <i>Hormone Classification, Origin, Action</i> <i>Diabetes PBL (Session 1)</i>		Dr. Pandey
Tues, Apr 29 8:30 – 9:30	Hormones and Receptors: <i>Mechanisms of Action; Signals</i>		Dr. Pandey
Wed, Apr 30 9:45 – 10:45	Hormones of the Endocrine Pancreas: <i>Insulin, Glucagon, Regulations of Blood Glucose</i>		Dr. Li
Thurs, May 1 9:45 – 10:45	Regulation of Calcium and Phosphate Homeostasis I: <i>Vitamin D, Calcitonin, Regulations and Metabolism</i>		Dr. Li
Fri, May 2 9:45 – 10:45	Regulation of Calcium and Phosphate Homeostasis II: <i>Parathyroid Hormone</i>		Dr. Li
Mon, May 5 9:45 – 10:45 1:00 – 5:00	Hormones of the Pituitary Gland <i>Diabetes PBL (Session 2)</i>		Dr. Pandey
Tues, May 6 9:45 – 10:45	Growth Hormone and Somatomedin		Dr. Pandey
Wed, May 7 9:45 – 10:45	Hormones of the Thyroid Gland		Dr. Pandey
Thurs, May 8 9:45 – 10:45 1:00 – 5:00	Hormones of the Adrenal Cortex <i>Diabetes PBL (Session 3)</i>		Dr. Pandey
Fri, May 9	No Physiology Class		
Tues, May 13 9:00 - Noon	Physiology & Biochemistry Combined Block 4 EXAM – Endocrine Physiology (9 Lectures)		
Mon, May 19 9:00 - Noon	Physiology Comprehensive FINAL EXAM (Departmental Exam)		