

Teaching Schedule - Medical Physiology - Fall 2008				
DATE	Instructor	TOPIC	Chapters	Pages XI e (AG)
		<i>Membrane Transport /Neural/Muscle</i>		
2-Sep	JS	Introduction to Physiology. Homeostasis and Control Systems of the Body	1	3 - 9
3-Sep	JS	Cell Functions and protein synthesi	2, 3	11 - 24, 31 -35
4-Sep	JS	Membrane physiology. Ion Channels and Pumps	4	45 - 58
5-Sep	JS	Transepithelial Transport. Osmosi	4	45 - 58
6-Sep				
7-Sep				
8-Sep	JS	Membrane Potentials. Resting Membrane Potential. Generation and Propagation of Action Potential:	4	58 - 71
9-Sep	JS	Synaptic transmissioi	45	559 - 584
10-Sep	JS	Neuronal Circuits	45	559 - 584
11-Sep	JS	Intercellular Communication - Membrane Receptors, G-Proteins and Second Messenger Systems	74	910 - 915
12-Sep	JS	Autonomic Nervous System, Adrenal Medulla and the Control of Viscera	60	748 - 759
13-Sep				
14-Sep				
15-Sep	JS	Contraction of Skeletal Muscle. Excitation-Contraction Couplin	6	72 - 84
16-Sep	JS	Contraction of Skeletal Muscle. Force production	7	85 - 90
17-Sep	JS	Contraction and Excitation of Smooth Muscl	8	92 - 99
18-Sep	JS	Cardiac Muscle and Rhythmic Excitation of the hear	9, 10	103 - 105, 116 - 121
19-Sep		Review		
20-Sep				
21-Sep				
22-Sep		Exam I (10%)		
23-Sep		Exam Review - Normal ECC	11, 12	123 - 129
		<i>Cardiovascular</i>		
24-Sep	JS	EKG Interpretation. Dysrhythmia:	12, 13	131 - 156
25-Sep	JS	EKG and Coronary Abnormalities	12, 13	131 - 156
26-Sep	JS	<i>Physiology Lab 1-Session #1 ECG and Blood Pressure</i>		131 - 156
27-Sep				
28-Sep				
29-Sep	JS	Heart as a Pump. Heart sounds	9, 23	103 - 114, 269 - 276
30-Sep	JS	Overview of the Circulation; Flow and Resistanc	14	161 - 170
1-Oct	JS	Vascular Distensibility; The Arterial and Venous System	15	171 - 179
2-Oct	JS	Microcirculation and the Lymphatic System	16	181 - 193
3-Oct	JS	Local Control of Blood Flow. Nervous and Humoral Regulation of the Circulation:	17, 18, 19	195 - 230
4-Oct				
5-Oct				
6-Oct	JS	Cardiac Output and Venous Return	20	232- 244
7-Oct	JS	Cardiac Failure	22	258 - 265
8-Oct	JS	Coronary Circulation, Ischemic Heart Disease, Circulatory Shoc	21, 24	246 - 256, 278-288
9-Oct	JS	Special circulations - Overview of pulmonary, renal, cerebral cir		
10-Oct		Review		
11-Oct				
12-Oct				
13-Oct		Exam II (20%)		
14-Oct		Exam Review - Indroduction to Pulmonary Physiolog	37	471 - 482
		<i>Renal/Pulmonary/Acid-Base</i>		
15-Oct	JS	Mechanics of Pulmonary Ventilatio	37	471 - 482
16-Oct	JS	Pulmonary Ventilation - Volumes and Capacities. Ventilation/perfusion Ratio	38, 39	483 - 490, 499 - 500
17-Oct	JS	Gas Exchange and Diffusior	39	491 - 501
18-Oct				
19-Oct				
20-Oct	JS	Gas Transport in the Blooc	40	502 - 513
21-Oct	JS	Regulation of Respiration. Diving and high altitut	41, 43, 44	514 - 523, 537 - 550

22-Oct	AK	Body Fluid Compartments	25	291 - 306	
23-Oct	AK	Urine Formation by the Kidney - Glomerular Filtration. Renal Blood Flow	26	307 - 326	
24-Oct	AK	Urine Formation by the Kidney - Tubular processing of the Glomerular Filtrate Physiology Lab 2	27	327 - 347	
25-Oct					
26-Oct					
27-Oct	AK	Regulation of Extracellular Fluid Osmolarity and Sodium Concentration Physiology Lab 2	28	348 - 364	
28-Oct	AK	Integration of Renal Mechanisms for Control of Extracellular Volume and Content. Micturition	29	365 - 382	
29-Oct	AK	Acid and Base Balance I	30	383 - 401	
30-Oct	AK	Acid and Base Balance I	30	383 - 401	
31-Oct		Review			
1-Nov					
2-Nov					
3-Nov		Exam III (20%)			
4-Nov		Exam Review			
		<i>Gastrointestinal/Endocrinology</i>			
5-Nov	AK	Gastrointestinal Function - Motility, Nervous Control and Blood Circulation	62	771 - 780	
6-Nov	AK	Propulsion and Mixing of Food in the Alimentary Tract	63	781 - 790	
7-Nov	AK	Salivary and Gastric Secretion	64	791 - 799	
8-Nov					
9-Nov					
10-Nov	AK	Pancreatic and Hepato-Biliary Secretion	64	799 - 807	
11-Nov	AK	Absorption of Water, Minerals, and Vitamins	65	813 - 815, 817 - 818	
12-Nov	JS	Carbohydrate, Protein, Fat Digestion and Absorption	65	808 - 812, 815 - 817	
13-Nov	AK	Introduction to Endocrinology	74	905 - 917	
14-Nov	AK	The Pituitary Hormones	75	918 - 930	
15-Nov					
16-Nov					
17-Nov	AK	Insulin and Glucagon	78	961 - 977	
18-Nov	JS	The Thyroid Hormones	76	931 - 943	
19-Nov	AK	The Adrenocortical Hormones	77	944 - 960	
20-Nov	AK	Parathyroid Hormone and Calcitonin. Vitamin D	79	978 - 989	
21-Nov		Review			
22-Nov					
23-Nov					
24-Nov		Exam IV (20%)			
25-Nov		Exam Review			
		<i>Reproductive Physiology / Blood / Thermoregulation</i>			
26-Nov	AK	Blood. Red Blood Cells and Erythropoiesis. Blood Group	32, 35	419 - 428, 451 - 456	
27-Nov	AK	White Blood Cells and Blood Coagulation	33, 34, 36	429 - 450, 457 - 470	
28-Nov	JS	Metabolism and Energetics. Thermoregulation Physiology Lab 3	72, 73	881 - 904	
29-Nov					
30-Nov					
1-Dec	AK	Reproductive Function in the Male. Testicular Hormone	80	996 - 1010	
2-Dec	AK	Ovarian Hormones and Regulation of the Monthly Cycle	81	1011 - 1026	
3-Dec	AK	Pregnancy and Lactation	82	1027 - 1052	
4-Dec	AK	Neonatal physiology	82	1027 - 1052	
5-Dec		Block 5 review			
6-Dec					
7-Dec					
8-Dec		Block 5 Examination (10%)			
9-Dec		Reading Day			
10-Dec		Shelf Board Exam (20%)			
11-Dec		Review			

* The Physiology Lab schedules are tentative and may be subject to change