

CSM Introductory Physiology (Biol 260) Tentative Course Schedule Fall 2009

WEEK and DATES	LECTURE TOPIC	READING (in Marieb)	LABORATORY EXERCISES - in manual unless otherwise specified, all handouts(HO) can be downloaded from website; IC - in class, OL - online
1: Aug. 20	Course Intro, Homeostasis Cell chemistry	Ch 1, 2 (review)	For all: Homeostasis at home (HO) and Fluid and Electrolyte Balance in Interactive Physiology (IP) (HO)
2: Aug. 25, 27	Cell membrane: transport and other functions	Ch 3, 26	IC: The Cell: Transport Mechanisms and Permeability, p. 17 OL: Math and other murky stuff (HO)
3: Sept 1, 3	Enzymes and Metabolism, Hormonal Control, Nutrition	Ch 2 (review); Ch 23 Digestion; Ch 24 Metabolism	IC: Dietary Homeostasis and Diabetes Case Study (HO) OL: PhysioEx Computer Simulation: Digestion, p. 31
4: Sept. 8, 10 * Labor day (M)	Gene Function and Regulation The Nerve Impulse	Ch 3, 29 Ch 11	IC: Principles of Heredity, p.47, group presentations OL: Practice Tests and Review Questions
5: Sept. 15, 17	Midterm I on Cell Biology (T) The Nerve Impulse	Ch 11	IC: Library Tour, Nervous system labs, p. 59 - 122 OL: Brain Tumor Case (HO)
6: Sept. 22, 24	The Synapse and Nervous Integration	Ch 11, parts of 12, 13, 14, 15	IC: Nervous system labs cont., p. 59- 122 OL: Parkinsons Case (HO)
7: Sept. 29, Oct. 1	Endocrine System	Ch 16	IC: Vitamin D Case (HO), group presentations OL: PhysioEx Computer Simulation: Endocrine System, p. 123
8: Oct. 6, 8	Muscle Cell Structure and Function	Ch 9	IC: Muscle modeling and grip strength testing (HO) / group presentations OL: PhysioEx Computer Simulation: Muscle Dynamics, p. 139

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9: Oct. 13, 15	Blood	Ch 17	IC: Blood lab Part 1, p. 153 OL: Practice Tests and Review Questions
10: Oct. 20, 22	Midterm II: Nerves, Endo & Muscle, Blood(T) Heart: Functional Anatomy, Cardiac Cycle	Ch 18, 19	IC: Human Cardiovascular Physiology, p. 173 OL: PhysioEx Computer Simulation: Cardiovascular Physiology, p. 193
11: Oct. 27, 29	Electrical System, Cardiac Output, Vessels, Blood Flow and BP	Ch 18, 19	IC: Electrocardiogram using Vernier (HO) OL: PhysioEx Computer Simulation: Cardiovascular Dynamics, p. 205
12: Nov. 3, 5	Cardiovascular system cont. Leukocytes/ Immunity	Ch 18, 19, 20 (review), 21	IC: Tues – Group Presentations Thurs. – Blood part 2, Immunology Storyboards, p. 153 OL: Interactive Physiology Worksheets and Quiz: Immune System (HO)
13: Nov. 10 *Thurs no class	Leukocytes/ Immunity	Ch 20 (review), 21	IC: (Tues. only) Blood part 2, Immunology Storyboards OL: Practice Tests and Review Questions
14: Nov. 17, 19	Midterm III on Circulation (T) Respiratory System Mechanics	Ch 21, 22	IC: Immunology Storyboards OL: Immunology Storyboards
15: Nov. 24 * Thanksgiving Holiday Thursday	Gas Exchange and Transport	Ch 22, 26 (acid – base balance)	IC: Respiratory System Physiology (Tues. only)p. 237 OL: no assignment
16: Dec. 1, 3	Renal Physiology	Ch 25, Ch 26	IC: Tues – Group presentations Thurs – Respiratory System Physiology, p. 237 OL: Acid/ Base Balance Case Study (HO)
17: Dec. 8, 10	Renal Physiology	Ch 25, Ch 26	IC: Urinalysis, p.263 OL: Practice Tests and Review Questions
Dec. 15	Tues Dec.15		Cumulative Final