

Dr. Darrell Stokes
Office Hours: 11:00a-12n
1:00p-2:00p Tue, Thurs
Pierce Hall

Biology 336 Oxford College
Human Physiology
Spring Semester, 2011

Tue, Thurs
10:00a-11:15am
Pierce Hall
Room 102

SYLLABUS

Date	Topic	Text Readings/ Assignments
Jan. 18	Course Introduction; Homeostasis	Ch.1 Review Ch. 3 A.2, 3C.1 and 3C.2
Jan. 20	Receptors I Regulation; Cell Communication Lipid Soluble Messenger Pathways	Ch. 5 pp. 119-122
Jan. 25	Cell Communication; Water Soluble Messenger Pathways	Ch. 5 pp. 122-134
Jan. 27	Cell Communication: Hormonal Principles	Ch. 11 pp. 311-324
Feb. 1	Regulation Example, The Hypothalamus/ Pituitary System	Ch. 11 pp. 325-331
Feb. 3*	Neurons and the Organization of the Nervous Systems	Ch. 6 pp. 135-142; 169-185
Feb. 8	Membrane Potentials	Ch. 6 pp. 142-147
Feb. 10	Graded Potentials, Action Potentials	Ch. 6 pp. 147-156
Feb. 15	Neural Communication: Synapses	Ch. 6 pp. 156-169
Feb. 17*	Sensory Receptors, Coding and Pathways	Ch. 7 pp. 186-194 Review Section 7A. 4
Feb. 22	Skeletal Muscle Organization and Contraction	Ch. 9 pp. 250-259
Feb. 24	The Neuromuscular Junction and Coupling of Excitation to Contraction	Ch.9 pp 259-261 Review pp. 261-263
Mar. 1	Skeletal Muscle Mechanics and Energetics: Single Fibers	Ch. 9 pp. 263-269
Mar. 3*	Fibertypes; Whole-Muscle Contraction and Exercise	Ch. 9 pp. 269-274 Review pp. 274-279
Mar. 8	SPRING BREAK	*****
Mar. 10	SPRING BREAK	*****
Mar. 15	Study Break PhyQuiz I	*****
Mar. 17*	PhyQuiz I - At Night TBA	*****
Mar. 22	Cardiac Muscle; Design of the Cardiovascular System	Ch. 12 pp. 353-361
Mar. 24	Cardiac Excitation; Mechanics	Ch. 12 pp. 361-377
Mar. 29	Vascular System; Arteries, Veins, Capillaries	Ch. 12 pp. 377-396

DATE	TOPIC	READINGS
Mar. 31*	Integration of Cardiovascular Function	Ch. 12 pp. 397-404 Review 12 E.1
Apr. 5	Organization of the Respiratory System; Mechanics of Ventilation	Ch. 13 pp. 434-448
Apr. 7	Respiratory Gas Exchange	Ch. 13 pp. 448-460
Apr. 12*	Control of Respiration	Ch. 13 pp. 460-466
Apr. 14	Organization of the Urinary System; Basic Renal Processes	Ch. 14 pp. 475-489
Apr. 19	The Loop of Henle	Ch. 14 pp. 490-495
Apr. 21*	Regulation of Sodium and Water	Ch. 14. 495-502
	PhyzQuiz II, Final Exam	TBA
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*	Family Path Component Due Date	

* TEXT: Vander et al.'s *Human Physiology: The Mechanisms of Body Function, 12th Edition*, ISBN 978-0-07-337810-7, by Widmaier, Raff and Strang (McGraw-Hill Publishers)
