

## Zoology 113 Human Physiology

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**Office Hours:** Monday 2:00-3:00, Thursday 10:00-11:00, Friday 1:00-2:00 or by appointment

**Text:** *Principles of Human Physiology* by W. J. Germann & C. L. Stanfield. Benjamin Cummings ISBN 0-8053-5662-2. This text is bundled with an A.D.A.M. *Interactive Physiology* CD-ROM. Available at the HSU Bookstore.

**Text Study Guide Web Site (*The Physiology Place*):** <http://www.physiologyplace.com/> *The Physiology Place* is the on-line study guide for Germann & Stanfield's *Principles of Human Physiology*. This site includes quizzes, answers to *Quick Tests* and End of Chapter questions, tutorials, web links, and a considerable amount of other materials. A yearlong subscription is included in the price of new textbooks. Students who purchased a used text can purchase a subscription to *The Physiology Place* at the web site (optional).

**Course Web Site:** <http://blackboard.humboldt.edu/> This is the URL for HSU's Blackboard system. This site will contain announcements, a personal grade book, lecture notes, and laboratory handouts. Access is restricted to students officially enrolled in this course.

### Lecture Schedule

Date	Lecture Topic	Reading Assignment	A.D.A.M Interactive Physiology CD-ROM
January 21	Introduction, Body Plan, Homeostasis	Chapter 1	
January 23	Feedback Loops	Chapter 1	
January 26	Biological Molecules	Chapter 2	
January 28	Cells	Chapter 2	
January 30	Cells, Protein Synthesis	Chapter 2	
February 2	Diffusion, Osmosis, Cell Membrane Transport	Chapter 4	
February 4	Cell Metabolism	Chapter 3	
February 6	Enzymes, Glucose Oxidation	Chapter 3	
February 9	Chemical Messengers	Chapter 5	Endocrinology
February 11	Membrane Bound Receptors, Endocrinology	Chapter 5	
February 13	Endocrinology	Chapter 5	
February 16	Endocrine Pathologies, Nervous System Organization	Chapters 5, 6	Nervous System I
February 18	Membrane Potential	Chapter 6	
February 20	Action Potential	Chapters 6	
February 23	Propagation, Saltatory Conduction, Synaptic Transmission	Chapters 6, 7	
February 25	Synaptic Transmission	Chapter 7	Nervous System II
February 27	<b>EXAM I</b>	Through Saltatory Conduction	

Date	Lecture Topic	Reading Assignment	A.D.A.M CD-ROMs
March 1	Blood-Brain Barrier, Selected Brain Functions	Chapter 8	
March 3	General Sensory Physiology	Chapter 9	
March 5	Somatosensory System, Pain	Chapter 9	
March 8	Vision	Chapter 9	
March 10	Vision	Chapter 9	
March 12	Hearing, Vestibular System	Chapter 9	
<b>March 15–19</b>	<b>Spring Break</b>	<b>Trashy Novels</b>	
March 22	Autonomic & Somatic Nervous Systems	Chapter 10	
March 24	Muscle Physiology	Chapter 11	Muscular System
March 26	Contraction Types, Fiber Types, Training	Chapter 11	
March 29	Circulatory Plan, The Heart	Chapter 12	Cardiovascular System
March 31	<b>Cesar Chavez Holiday – No Class!</b>		
April 2	Cardiac Electrophysiology	Chapter 12	
April 5	Cardiac Cycle, Blood Pressure, Blood	Chapter 12, 13	
April 7	<b>Exam II</b>	Through Cardiac Electrophysiology	
April 9	Blood, Blood Vessels	Chapter 13	Cardiovascular System
April 12	Blood Flow Capillary Exchange	Chapter 13	
April 14	Respiratory Anatomy & Mechanics	Chapter 15	Respiratory System
April 16	Gas Exchange	Chapter 16	
April 19	Gas Transport, Regulation of Breathing	Chapter 16	
April 21	Urinary System	Chapter 17	Urinary System
April 23	Nephron Physiology	Chapters 17, 18	
April 26	Nephron Physiology	Chapters 17, 18	
April 28	Digestion	Chapter 19	
April 30	Absorption of Digestive Products	Chapter 19	
May 3	Male Reproductive System	Chapter 21	
May 5	Female Reproductive System	Chapter 21	
May 7	Pregnancy, Development, Labor	Chapter 21	

The **Final Exam** is scheduled for **Friday, May 14** from 10:20 to 12:10.