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Course Moodle Web Site: <http://learn.humboldt.edu/>

Office Hours: Tuesday 10:00 – 11:00; Thursday 11:00 – 12:00; Friday 10:00 – 12:00, and by appointment

Text: *Animal Physiology, 2nd Edition* by Richard W. Hill, Gordon A. Wyse, and Margaret Anderson, 2008. Sinauer Associates, Sunderland, MA. ISBN 978-0-87893-317-4. Available at the HSU Bookstore.

On Reserve: Three *A.D.A.M Interactive Physiology 7-System Suite* CD-ROMs are on Reserve in the HSU Library. This CD-ROM contains seven sections on various areas of physiology. You may earn up to 2.5 extra credit points per CD-ROM by completing an accompanying question sheet for six of these sections. In addition, two additional sections are on-line (URLs will be provided) and you may earn credit for these also.

| Week | Date | Topic | Reading Assignment* |
|------|--|---|---------------------------------|
| 1 | Aug. 24 | Enzymes & Enzyme Kinetics | Chapter 2, Appendixes A & B |
| | Aug. 26 | Enzyme Modulation | Chapter 2 |
| 2 | Aug. 31 | Cell Signaling, Diffusion, Osmosis | Chapter 2, 4, p. 391 – 392, 395 |
| | Sept. 2 | Second Messengers, Osmolarity, Tonicity, Transport | Chapters 2, 4 |
| 3 | Sept. 7 | Transport, Introduction to Nervous Systems | Chapters 4, 11, 14 |
| | Sept. 9 | Equilibrium Potential, Membrane Potential | Chapters 4, 11, Appendixes E, J |
| 4 | Sept. 14 | The Action Potential | Chapter 11 |
| | Sept. 16 | The Action Potential, Voltage Clamping | Chapter 11 |
| 5 | Sept. 21 | Channel Behavior, Passive Membrane Properties | Chapter 11 |
| | Sept. 23 | Membrane Properties, Saltatory Conduction <i>Membrane Potential Question Set Due</i> | Chapter 11 |
| 6 | Sept. 28 | Saltatory Conduction, Synaptic Transmission | Chapter 11, 12 |
| |  Sept. 29 | Lecture Exam I (Coverage through Sept. 23 lecture)(administered in 328 Science B during your normal laboratory period) | |
| | Sept. 30 | Synaptic Transmission | Chapter 12 |
| 7 | Oct. 5 | Synaptic Plasticity, Autonomic Nervous System | Chapter 12, 14 |
| | Oct. 7 | Sensory Physiology | Chapter 13 |
| 8 | Oct. 12 | Chemical Senses, Hearing | Chapter 13 |
| | Oct. 14 | Vision | Chapter 13 |

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| 9 | Oct. 19 | Vision, Muscle | Chapters 13, 19 |
| | Oct. 21 | Muscle | Chapter 19 |
| 10 | Oct. 26 | Muscle | Chapter 19 |
| | Oct. 28 | Endocrine System, Pituitary Gland | Chapter 15 |
| 11 | Nov. 1  | Lecture Exam II (Coverage through Oct. 26 lecture)(administered in 328 Science B during your normal laboratory period) | |
| | Nov. 2 | Pituitary Gland, Reproductive Endocrinology | Chapter 15, 16 |
| | Nov. 4 | Reproductive Endocrinology, Cardiovascular System | Chapters 16, 24 |
| 12 | Nov. 9 | Cardiac Cycle, Hemodynamics | Chapter 24 |
| | Nov. 11 | <i>Veteran's Day Holiday – No Class</i> |  |
| 13 | Nov. 16 | Circulatory Control, Regulation of Blood Flow | Chapters 24, Appendix C |
| | Nov. 18 | Gas Transport, pH Regulation | Chapter 23 |
|  | Nov. 23 & 25 | <i>Thanksgiving</i> | <i>Cookbooks & Diet Manuals</i> |
| 14 | Nov. 30 | pH Regulation, Respiratory Control, Urinary System | Chapter 23, 28 |
| | Dec. 2 | Urinary System | Chapters 26, 28 |
| 15 | Dec. 7 | Nephron Physiology, Alimentary Canals | Chapters 28, 5 |
| | Dec. 9 | Alimentary Systems, Digestion | Chapter 5 |

*Reading assignments are from *Animal Physiology* by Hill et al.

The **Final Examination** is scheduled for Tuesday, December 14 at 17:00 – 18:50 (5:00 – 6:50 PM).
The Final Examination will be conducted in the lecture hall (564 Science A).