

# HUMAN PHYSIOLOGY 3070

## SPRING 2011

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Textbook: Guyton; Human Physiology and Mechanisms of Disease, W.B. Saunders

or

Sherwood: Human Physiology from Cells to Systems, Brooks and Cole

- 1/11 Introduction
- 1/13 Overview of Basic Cell Biology
- 1/18 **Circulation:** Heart, Anatomy and Excitation
- 1/20 Hemodynamics; Regulation of Arterial Pressure
- 1/25 Cardiac Output; Coronary Blood Flow
- 1/27 Capillary Exchange; Hemodynamics
- 2/1 Review of cardiovascular system
- 2/3 **Exam I** (95 pts.)
- 2/8 **Excretion and Gas Exchange:** Kidney, Anatomy and Function
- 2/10 Formation of Urine
- 2/15 Regulation of Fluids, pH
- 2/17 Lungs; Exchange of Respiratory Gases
- 2/22 Review of Renal and Respiratory Systems
- 2/24 **Exam II** (95 pts.)
- 3/1 Digestion and Metabolism: GI tract, Liver; Pancreas
- 3/3 Absorption and Storage Metabolism
- 3/8 No class (Spring Break)
- 3/10 No class (Spring Break)
- 3/15 Temperature Regulation
- 3/17 Muscle Contraction; Exercise
- 3/22 **Exam III** (95 pts.)
- 3/24 No class
- 3/29 No class
- 3/31 **Nervous and Hormonal Control:** Basic Mechanisms; Pituitary
- 4/5 Regulation of Metabolism; Insulin/Glucagon
- 4/7 Adrenocortical Hormones; Calcium Homeostasis
- 4/12 Organization of the Nervous System; Synapses
- 4/14 Sensory Physiology Autonomic Nervous System; Pharmacology
- 4/19 **Exam IV** (120 pts.)
- 4/21 **Basic Defense Mechanisms:** Local Inflammatory Response
- 4/26 Humoral and Cell-Mediated Immunity
- 4/28 Allergy, Infection
- Exam V (95 pts.) Final Exam Period**