

HUMAN PHYSIOLOGY 3070
Spring 2013

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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

- 1/8 Introduction
- 1/10 Overview of Basic Cell Biology
- 1/15 **Circulation:** Heart, Anatomy and Excitation
- 1/17 Hemodynamics; Regulation of Arterial Pressure
- 1/22 Cardiac Output; Coronary Blood Flow
- 1/24 Capillary Exchange; Hemodynamics
- 1/29 Review of cardiovascular system
- 1/31 **Exam I** (100 pts.)
- 2/5 **Excretion and Gas Exchange:** Kidney, Anatomy and Function
- 2/7 Formation of Urine
- 2/12 Regulation of Fluids, pH
- 2/14 Lungs; Exchange of Respiratory Gases
- 2/19 Review of Renal and Respiratory Systems
- 2/21 **Exam II** (100 pts.)
- 2/21 Digestion and Metabolism: GI tract, Liver; Pancreas
- 2/26 Absorption and Storage Metabolism
- 2/28 No class (Spring Break)
- 3/5 No class (Spring Break)
- 3/7 Temperature Regulation
- 3/12 Muscle Contraction; Exercise
- 3/14 Review of digestion/temperature regulation
- 3/19 **Exam III** (100 pts.)
- 3/21 No class
- 3/26 **Nervous and Hormonal Control:** Basic Mechanisms; Pituitary
- 3/28 Regulation of Metabolism; Insulin/Glucagon
- 4/2 Adrenocortical Hormones; Calcium Homeostasis
- 4/4 Organization of the Nervous System; Synapses
- 4/9 Sensory Physiology Autonomic Nervous System; Pharmacology
- 4/11 Review of nervous and hormonal control
- 4/16 **Exam IV** (100 pts.)
- 4/18 **Basic Defense Mechanisms:** Local Inflammatory Response
- 4/23 Humoral and Cell-Mediated Immunity
- 4/25 Allergy, Infection
- Exam V, not cumulative (100 pts.) Final Exam Period**

EXAMINATIONS:

Examinations will consist of five 1-hour examinations each worth 100 points and will only cover material discussed in class. Class notes are available in the bookstore and suggested text books are available as reference material. Examinations from the previous year are available on line or in the library, and are a mixture of fill in the blank, increases/decreases, graphs and short essays. Be aware that new questions are developed each year, so that studying exclusively from past examinations is unlikely to yield a positive outcome. Class attendance is critical.

Basic Examination Rules:

1. All examinations must be taken at the scheduled time.
2. Examinations will start and end at the specified times. Students arriving more than 10 minutes after the examination has begun will not be admitted **under any circumstances!**
3. Be sure to bring at least two number 2 (#2) pencils and your valid UT student ID card to each examination.
4. **QUIET** is to be maintained **AT ALL TIMES** while an examination is being taken! Please be considerate of your fellow students. If you need to talk about something please do it outside of the room where the examination is being taken. Violators of this rule will have their examinations confiscated and they will receive a grade of F for the examination.
5. If you feel that an error in grading your examination has occurred, you must respond within one week of receiving the examination back from me. Otherwise, I will assume that there is no problem and the grade will be recorded as it stands.

GRADES AND WITHDRAWALS

I do not assign grades of DR (drop). You may withdraw from the course if you want to but to do this you must fill out a withdrawal slip and process it through official University channels by the posted deadline.

STATEMENT OF ACADEMIC DISHONESTY

Academic dishonesty by students enrolled in undergraduate and graduate courses and programs offered by the Department of Biological Sciences will not be tolerated. Academic dishonesty includes but is not limited to:

1. Obtaining assistance from another individual during an examination.
2. Giving assistance to another individual during an examination.
3. The unauthorized use of study material or textbooks during an examination.
4. Changing answers on an examination after it has been returned and then submitting it for grading.
5. Plagiarizing written assignments. Plagiarizing includes but is not limited to : a) Copying laboratory reports from previous years, b) copying or paraphrasing reports, term papers, or these prepared by other students, c) unauthorized collaboration in the preparation of reports, term papers, or theses, and d) use of another author's materials without appropriate acknowledgement through quotation and citation.
6. Attempting to bribe or otherwise induce an instructor to alter either a grade or examination score.
7. Obtaining or attempting to obtain a copy of an examination prior to its administration.

In accordance with policies presented in The Student Handbook and The University Catalog, Instructors have the responsibility and right to report cases of alleged dishonesty to departmental, college, and university administrative units. Students involved in academic dishonesty may expect to receive a grade of F on specific assignments as well as in the course where the assignment was made. In addition, disciplinary action may be recommended through appropriate college and university disciplinary committees. Please consult your instructor for instructions on the implementation of this policy.