

SPRING 2006
BIOL 1300: Body Systems with Lab, 3 Credit Hrs.
SYLLABUS

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Class meetings: The lecture for all Sections: MW 1.00-1.50 PM, FN 2.102;
The Lab: Sec 001- MW 9-9.50 AM; Sec 002-MW 10-10.50 AM;
Sec 003-MW 11-11.50 AM; FN 2.208

General Information:

This course is designed as a science elective open to all majors.

The main goal of the course is to give a college-educated person, whose specialty is far afield from the biomedical field, an indispensable knowledge of the structure and the functions of the human body. Along with providing of the essentials of Human Anatomy and Physiology, as well as basic information about the main diseases and disorders the course will stress the concept of the body as an integrated whole. Special considerations will be given to preventive and self-care approaches, which are becoming more emphasized in modern medicine.

Course Materials:

Memler's The Human body in Health and Disease, 10-th edition,
by Barbara Janson Cohen (ISBN 0-7817-4232-3)

Study Guide for Memler's The Human body in Health and Disease, 10-th edition, By Barbara Janson Cohen and Kerry L. Hull (ISBN 0-7817-5172-1).

Syllabus:

The course is divided into seven units. Each division is based on a conceptual and/or functional principle and comprises a set of chapters in the Textbook.

The Study Guide is divided identically and consists of different types of exercises, which make the assimilation of the Text easier for the student. Lab sessions are correlated with the lectures and will consist mainly of the learning of the anatomical structures using the models of the body.

Attendance:

Due to the fact that the each class meeting is a combination of a theoretical discussion (the lecture) and a practical part (the lab) the attendance at all classes is required. Five percents of the Final Grade will come from the Attendance Grade.

Exams and Grading:

An exam will follow completion of the first two Units and each of the succeeding 5 Units, which will give you 6 exam scores.

Proficiency of the Lab. will be checked through 4 practical exams, which adds 4 more scores.

Although the exercises in the Study Guide are planned to help in the student's learning and not merely to test knowledge, a grade will be used to evaluate the execution of the assignments in each of

e 7 Units.

hus, the total number of scores for this course, including the final exam score, will be 18.

aking all of the Unit exams and the Lab practicals is **mandatory**.

or students who take all 6 Unit exams and the 4 Lab practicals, and complete all the Study Guide

ercises the 2 lowest exam scores (excluding the Final), the lowest Lab practical score, and the 2
west Study Guide exercises scores can be dropped. For students who do not take all of the
entioned tests and exercises or whose lowest scores are less than 59% no grades will be dropped.

he Final Grade will be based on the following calculations:

- 40% Unit exams;
- 20% Final exam;
- 20% Lab. Practical;
- 15% Study Guide's exercises;
- 5% Attendance.

**here are no retakes. Make-up exams will be given only in case of a documented
xcuse.**

he Final letter grades will be assigned in accord with the following
numerical scale:

97-100	A+
92-96	A
89-91	A-
85-88	B+
82-84	B
79-81	B-
75-78	C+
72-74	C
69-71	C-
65-68	D+
62-64	D

he topics and the exams schedule:

he week of January 8-Unit 1 (Chapters 1-4) Introductory Lecture.

he Body as a Whole. Organization of the Human Body. Cells and Their Functions. Tissues, Glands,
nd Membranes.

he week of January 15-Unit 2 (Chapter 5)

isease and Disease-Producing Organisms.

he week of January 22-Units 2, 3 (Chapters 6-7)

he Skin in Health and Disease. The Skeleton: Bones and Joints.

Unit exam #1(Chapters 1-6)

January 24

he week of January 29-Unit 3 (Chapter 8)

he Muscular System

he week of February 5-Unit 4 (Chapter 9)

he Nervous System: The Spinal Cord and Spinal Nerves.

Lab practical#1(Chapters 1-8)

February 6

Unit exam #2 (Chapters 7-8)

February 8

the week of February 12-Unit 4(Chapter 10)

the Nervous System: The Brain and Cranial Nerves.

the week of February 19-Unit 4(Chapter 11)

the Sensory System

the week of February 26-Unit 4(Chapter 12)

the Endocrine System: Glands and Hormones.

the week of March 12-Unit 5(Chapters 13-14)

the Blood. The Heart and Heart Disease.

Lab practical #2(Chapters 9-12)

March 13

Unit exam #3 (Chapters 9-12)

March 15

the week of March 19-Unit 5(Chapters 15-17)

lood Vessels and Blood Circulation. The Lymphatic System and Lymphoid Tissue. Body Defenses, Immunity, and Vaccines.

the week of March 26-Unit 6 (Chapters 18-19)

respiration. Digestion.

Lab practical # 3 (Chapters 13-17)

March 27

the week of April 2-Unit 6(Chapters 20-22)

Metabolism, Nutrition, and Body Temperature. Body Fluids. The Urinary System.

Unit exam # 4(Chapters 13-17)

April 3

Unit exam # 5(Chapters 18-22)

April 10

the weeks of April 9 and 16-Unit 7(Chapter 23-25)

the Male and Female Reproductive Systems. Development and Birth. Heredity and Hereditary Diseases.

Lab practical #4 (Chapters 18-23)

April 17

Unit exam # 6 (Chapters 23-25)

April 19

Final exam

Friday, April 28, 11 A.M.

Additional Information:

The following are some websites that pertain to the issues that will be discussed in the “Body Systems” course.

<http://www.ama-assn.org/>

American Medical Association/JAMA

[americanheart.org](http://www.americanheart.org)

American Heart Association

[cdc.gov/](http://www.cdc.gov/)

Centers for Disease Control and Prevention

[healthfinder.gov](http://www.healthfinder.gov)

Government-sponsored megasite

[mayohealth.org](http://www.mayohealth.org)

Mayo Clinic

ncbi.nlm.nih.gov/Pubmed/fulltext.html

MEDLINE online journal links

[nih.gov/](http://www.nih.gov/)

National Institutes of Health

[pharminfo.com](http://www.pharminfo.com)

Pharmaceutical

[rxlist.com](http://www.rxlist.com)

Drugs

[elsevier.com/](http://www.elsevier.com/locate/sciam)

Scientific American online