

FALL 2009  
**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; MP 2.214

#### 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 aside 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:

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

2. 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).

#### Curriculum:

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.

Mastery 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 the 7 Units.

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

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

For students who take all 6 Unit exams and the 4 Lab practicals, and complete all the Study Guide exercises the 2 lowest exam scores (excluding the Final), the lowest Lab practical score, and the 2 lowest Study Guide exercises scores can be dropped. For students who do not take all of the mentioned tests and exercises or whose lowest scores are less than 59% no grades will be dropped.

The Final Grade will be based on the following calculations:

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

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

The 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

The topics and the exams schedule:

The week of August 21-Unit 1 (Chapters 1-4) Introductory Lecture.

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

The week of August 28-Unit 2 (Chapter 5)

Disease and Disease-Producing Organisms.

The week of September 4–Units 2, 3 (Chapters 6-7)

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

**Unit exam #1(Chapters 1-6)**

The week of September 11-Unit 3 (Chapter 8)

The Muscular System

The week of September 18-Unit 4 (Chapter 9)

The Nervous System: The Spinal Cord and Spinal Nerves.

**Lab practical#1(Chapters 1-8)**

**September 19**

**Unit exam #2 (Chapters 7-8)**

**September 21**

The week of September 25-Unit 4(Chapter 10)

The Nervous System: The Brain and Cranial Nerves.

The week of October 2-Unit 4(Chapter 11)

The Sensory System

The week of October 9 -Unit 4(Chapter 12)

The Endocrine System: Glands and Hormones.

The week of October 16-Unit 5(Chapters 13-14)

The Blood. The Heart and Heart Disease.

**Lab practical #2(Chapters 9-12)**

**October 17**

**Unit exam #3 (Chapters 9-12)**

**October 24**

The week of October 23-Unit 5(Chapters 15-17)

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

The week of October 30-Unit 6 (Chapters 18-19)

Respiration. Digestion.

**Lab practical # 3 (Chapters 13-17)**

**October 31**

The week of November 6-Unit 6(Chapters 20-22)

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

**Unit exam # 4(Chapters 13-17)**

**November 7**

**Unit exam # 5(Chapters 18-22)**

**November 14**

The weeks of November 13 and 20-Unit 7(Chapter 23-25)

The Male and Female Reproductive Systems. Development and Birth. Heredity and Hereditary

**Lab practical #4 (Chapters 18-23)  
November 21**

**Unit exam # 6 (Chapters 23-25)  
November 23**

**Final exam  
Friday, December 2, 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.>

1. [ama-assn.org/](http://www.ama-assn.org/)

American Medical Association/JAMA

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

American Heart Association

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

Centers for Disease Control and Prevention

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

Government-sponsored megasite

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

Mayo Clinic

6. [ncbi.nlm.nih.gov/Pubmed/fulltext.html](http://ncbi.nlm.nih.gov/Pubmed/fulltext.html)

MEDLINE online journal links

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

National Institutes of Health

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

Pharmaceutical

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

Drugs

10. [sciam.com/](http://www.sciam.com/)

Scientific American online