



Hoboken Charter School

Welcome to Anatomy and Physiology with Mr. Maurizi Course Syllabus

The sciences of Anatomy and Physiology are the foundation for understanding the structures and functions of the human body. Anatomy is the science of *structure* and the relationships among structures while Physiology is the science of body *functions*; how the body works. In this course we will look at how each structure of the body functions and how the structure of a part often determines the functions it can perform. Finally, we will establish a basic vocabulary that allows us to speak about the body in a way that is understood by scientists and health-care professionals alike.

Expectations

As part of the AVID program, students are expected to maintain an interactive science notebook with daily notes and activities. This notebook will be separate from the AVID 3-Ring Binder used for all other classes. Homework assignments must be handed in at the beginning of class the day after they are assigned, with the exception of long term projects and labs. Work missed due to absence must be made up immediately upon the student's return to class. It is the student's responsibility to seek help from instructors or classmates with regard to work missed.

Textbook

Tortora, G.H., Derrickson, B., **Introduction to the Human Body: The Essentials of Anatomy and Physiology 7th ed.** Wiley. 2007

Laboratories

Lateness and Absenteeism is detrimental to the student's understanding of the Lab, material being learned and is a disruption to the other students who are present and arrived on time!

Students will be instructed in the proper use and care of laboratory instruments. Equipment is to be shared between lab partners. Each student is responsible for the equipment. Students will be charged for the loss and breakage of materials and equipment.

All data will be accumulated together; however each student is required to submit their own comprehensive lab report. Each group is responsible for cleanup of their lab station at the end of the lab period. It is important to clean all glassware and tabletops. All items must be returned to their original place in order that they can be used again.

Students will be entrusted with professional equipment, therefore self-discipline is expected in the laboratory. This is a very important safety situation.

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Absenteeism

Absentees are required to confer with the teacher the first day back. (NOT DURING CLASS TIME!)

Students will have one week to make up a missed lab. Tests will be given the day of return.

If students know they will be absent for extended periods of time, arrangements must be made through the main office to pick up assignments.

Grading System

Grades will be based on overall performance in class. Earning an 'A' will require more than just doing well on the tests and quizzes. The grade measures performance on multiple assessments:

Tests - Will be given at the end of major units - 40%

Labs/Projects- Students will work to research and present various topics as well as read two science-based novels that will have projects assigned every two weeks - 25%

Annotated Bibliographies- The scientific world is full of articles that affect our every day lives. Many will be assigned however only five will be used for portfolios – 15%

Homework- Homework is completed on time and effort is displayed. - 10%

Quiz- Will be used to assess the knowledge of content between tests - 10%

Academic Honesty

Cheating and plagiarism have become prevalent in all levels of the American classroom. A section found in the non-negotiable rules may clear up any confusion about what is considered honest and what is considered cheating/ plagiarism.

12th Grade Biology Curriculum Map

- I. Introduction to the Metric System and Metric Equipment (Sept 2007)
 - A. Base units and prefixes
 - B. Length, Volume, Mass, Weight
 - C. Triple Beam Balance, Metric Ruler

- II. Scientific Method (Sept 2007)
 - A. Purpose, Hypothesis, Materials, Procedure, Observations, Conclusion
 - B. Data Table (Excel)
 - 1. Spreadsheet
 - 2. Graph

- III. Properties of Living Things (Sept & Oct 2007)
 - A. Cellular Organization
 - B. Reproduction
 - C. Metabolism
 - D. Homeostasis
 - E. Heredity
 - F. Growth and Development
 - G. Responsiveness

- IV. The Cell (Oct & Nov 2007)
 - A. Prokaryotic vs. Eukaryotic
 - B. Cell Organelles
 - C. Cell Chemistry (Oct 2006)
 - 1. Cellular Respiration
 - 2. Cellular Fermentation
 - 3. Photosynthesis
 - D. Cellular Reproduction
 - 1. Mitosis
 - 2. Meiosis

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- V. Genetics (Nov & Dec 2007)
 - A. Mendel
 - B. Inheritance