

CENTRAL HIGH SCHOOL
Human Anatomy and Physiology
Miss Dornon

COURSE SYLLABUS

Course Description:

The course is for those interested in science-related fields. Anatomy and physiology is a discussion and laboratory based study of the human body. The study will range from molecules, cells, body systems, and processes. Dissection of a cat and other appropriate organs will compliment course work. This course is designed for college preparation, especially for biology and health career majors. (Level 1 course)

Prerequisites: A grade of "A" or "B" in Biology I and completion of Inorganic Chemistry are required.

Lab Fee- 2 semesters

Course Objectives:

Upon the successful completion of this course, students will be able to:

- Explain how anatomy and physiology are related.
- Name the levels of structural organization that make up the human body and explain how they are related.
- Name the organ systems of the body and briefly state the major functions of each system.
- Classify by organ system all organs discussed.
- Explain the anatomical structure and location of all organs in each system.
- Define homeostasis and explain its importance.
- Use proper anatomical terminology to describe body direction, surfaces and body planes.
- Name the four major tissue types and explain how they differ structurally and functionally.
- List the general functions and structure of each membrane type- cutaneous, mucous, serous, and synovial- and give its location in the body.
- Identify the subdivisions of the skeleton as axial or appendicular.
- Name the four main kinds of bones.
- Compare and contrast the structure and function of the three types of muscle tissue and where they are located in the body.
- Describe how an action potential is initiated in a muscle cell.
- Identify and indicate the functions of the major regions of the cerebral hemispheres, diencephalon, brain stem, and cerebellum on a human brain model or diagram.
- Trace the pathway of a stimulus of each sense from start to the brain.
- Describe the blood-clotting process.
- Describe the ABO and Rh blood groups.

- Trace the pathway of blood through the heart.
- Compare pulmonary and systemic circuits.
- Describe the various body defenses.
- Describe the developmental aspects of all the body systems.
- Explain common diseases that affect the body systems.

Required Class Materials:

Three ring binder (at least 1")
 package of 5 dividers
 2 notebooks
 Colored Pencils

Writing Utensils
 Calculator (needed occasionally)
 Textbook

Text: The Essentials of Human Anatomy and Physiology 6th ed., Marieb

Course Outline:

Chapter 1: The Human Body: An Orientation	Chapter 9: The Endocrine System
Chapter 2: Basic Chemistry	Chapter 10: Blood
Chapter 3: Cells and Tissues	Chapter 11: The Cardiovascular Sys.
Chapter 4: Skin and Body Membranes	Chapter 12: The Lymphatic/Immune
Chapter 5: The Skeletal System	Chapter 13: The Respiratory System
Chapter 6: The Muscular System	Chapter 14: The Digestive System
Chapter 7: The Nervous System	Chapter 15: The Urinary System
Chapter 8: Special Senses	Chapter 16: The Reproductive Sys.

Major Assignments:

Due on test days for each chapter: binder, journals, disease/career paper.
 Lab Reports-throughout the year as labs are completed
 "I am Joe's/Jane's" Paper- May
 Dissection of Cat-May
 *This list is tentative and is subject to change.

Grading:

A 100-92%
 B 91-85%
 C 84-77%
 D 76-70%
 F 69-0%

* Homework, lab reports, quizzes, etc will count for 45% of your grade.
 * Tests will count for 55% of your grade.

Class Policies & Procedures:

- All work is due at the beginning of the class period or when specified by the teacher. **IF it is not turned in at that time it is considered late and will follow the late policy.**

- **LATE POLICY:** You have until 8:15 am of the following calendar day to turn it in for a grade no higher than 75% of the available points or a D+. After 8:15 am it will no longer be accepted for credit and you will be given a zero. Late assignments can be turned in to me directly or to my mailbox in the office.
- As for excused absences. You have the same amount of **days** (not class periods) to make up homework that you missed. So if you are gone one day, you have one day to make it up. If not made up or scheduled the make up in the allotted time it is late and will follow the previously mentioned late policy. **This goes for tests, quizzes, labs, homework, etc. Whatever is not made up in the proper amount of time will become zeros.** Since we are on the 8-block schedule it is YOUR RESPONSIBILITY to come and get your assignment **THE DAY YOU GET BACK AND NOT THE NEXT DAY YOU HAVE MY CLASS!**
- If your work does not have your name on it and/or is illegible it is hard to grade and record a grade. This may result in a zero.
- Be in your seat, quiet and working when the bell rings. **If not in your seat when bell rings it will be considered a tardy.**
- Be prepared for class everyday.
- Be respectful to teacher, classmates, and equipment. Use classroom equipment and materials for intended purposes only.
- **Consequences:** 1st infraction will receive a warning and a conference with the teacher, second infraction will entail a contact with the parent and a classroom detention, Subsequent infractions will involve further action and most likely include Mr. Harkins and /or Mr. Felesena.
- Use your passing periods wisely. Time out of the classroom equals loss of valuable learning time.
- Cheating in **ANY** form will not be tolerated. Action will be taken according to the handbook.

Miscellaneous:

- The amount of homework will vary from week to week and many times will depend on how well you use available class time!!!! As a rule, expect homework every night.
- Homework, labs, etc will be collected on a regular basis and graded. Binders will be collected and graded after most units and on test day.
- **Things to know in order to succeed:** Keep up with homework, be involved in discussion and activities, take notes and review them often and ask questions and/or for help when needed.

Instructor Contact:

Monday- Friday 7:50 am - 8:15am & 3:20pm -3:30pm

A Days 11:20 am- 1:20 pm

B Days 9:50 am- 11: 10 am

(815) 694-2321 or bdornon@cusd4.org

