

HONORS ANATOMY AND PHYSIOLOGY

Santa Susana High

Mrs. Aiello laiello@simi.k12.ca.us

My Website www.biolady.net

Text: Fundamentals of Anatomy & Physiology by Martini

Recommended purchase: Pictorial Anatomy of the Cat by Gilbert *This can be purchased on line.*

I. Course Description:

Anatomy & Physiology is a detailed study of the structures and functions of the human body. Various materials, apparatus, and dissections of assorted specimens are used to provide laboratory experiences in this area. It is designed to provide an extensive background for students with an interest in the health sciences and related fields. Correct scientific terminology, laboratory techniques and independent study are stressed. It is assumed that all students enrolled in this course have an adequate working knowledge of Biology and Chemistry. Students are required to complete an independent research paper, a presentation of practical anatomy, and a PowerPoint presentation of physiology. The major topics covered during this course are as follows:

- A. Cell Physiology and Structure
- B. Skeletal System / Anatomy & Physiology
- C. Muscular System / Anatomy & Physiology
- D. Digestive System / Anatomy & Physiology
- E. Respiratory System / Anatomy & Physiology
- F. Circulatory System / Anatomy & Physiology
- G. Excretory System / Anatomy & Physiology
- H. Nervous System / Anatomy & Physiology
- I. Reproductive System / Anatomy & Physiology*

*By signing this letter, both parents/guardians and students are aware that discussions, lectures, and appropriate video & computer images will be used to aid the topics related to human reproduction. Topics include: Identification of various tissues/organs involved in reproduction; Roles of hormones in both male and female reproduction; Major events contributing to conception; Major stages of pregnancy and parturition; and various disorders and diseases of the reproductive system and parturition.

II. Lab Requirements:

All students will participate in the laboratory dissections of assorted specimens and the cat. Laboratory dissections and exercises will be done in groups of two or three students. Each group will be assigned their own specimens for dissection and a set of dissection instruments. The members of the lab group are wholly responsible for the security of their specimens and dissection instruments. The lab group will replace lost or damaged instruments. Each member of the lab group will turn in an *individual lab write up**. Any semblance of copying will result in a "Fail" grade and referral to the administration.

III. PowerPoint Presentation

Students will be required to create a PowerPoint presentation on an assigned topic of physiology in the first semester. This assignment is to be done either in groups of two or individually. There is a 15 minute (maximum) presentation and short written component*. Both students in the group must participate. This presentation will be due in early December. Information presented in the presentations will be incorporated into the first semester Final Exam. Any semblance of plagiarism will result in a "Fail" grade and a referral to the administration.

IV. Anatomical Presentations

Each lab group will be required to present one class dissection demonstration in the second semester. Each group member will be required to participate in the class demonstration. Students will be assigned an organ system to review with the class which includes proper identification of the anatomical structures on a specimen and the functions of each organ in the system. The information in the presentations will be incorporated into the second semester Final Exam.

V. Independent Research Paper

Each student is required to complete an Independent Research Paper on an advance in medicine. The paper will be graded in two parts – one each semester. The first part will be due at the beginning of January and include topic approval, thesis statement/introduction, outline and preliminary references. The final paper will be due at the end of May*. Any semblance of plagiarism will result in a “Fail” grade and a referral to the administration.

*APA Style is required for *all written work* submitted for a grade.

VI. Grading

Grades earned by the student are based upon tests, quizzes, lab practicums, final exam, labs, study guide worksheets, an independent research project, PowerPoint presentation, a practical anatomy presentation, and homework assignments. The scale is as follows:

90-100% = A, 80-89% = B, 70-79% = C, 60-69% = D, Below 60% = Fail

The following are **approximate** percentages for graded work:

Tests, quizzes and practicums = 50%; labs and in-class worksheet/assignments = 15%; presentations and research paper = 10%; homework = 10% and the Final Exam = 15%.

VII. Make Up Work

Late work will not be accepted. All excused absent work (*students must provide instructor with proper verification for absence*) is due within the number of days of a verified absence. Students are responsible for obtaining missed assignments before or after class or on-line from “*yourhomework.com*”.

Note: If you are absent on the due date of a *term project*[Ⓞ] you will lose 10% credit for each day the assignment is late. All tests and quizzes must be made up with in *one week*. Due to the extensive set-up required for dissection exams, **these cannot be made up.**

[Ⓞ]Term Projects include: PowerPoint Project, Anatomical Presentation, and Independent Research Paper the due dates of these are given at the beginning of the semester.

VIII. Classroom Rules & Policies:

1. Be in your seat when the bell rings, or you are tardy (3 tardies = a “U” in cooperation and a call home. 4 tardies - and each subsequent tardy = a “U” in Effort and a detention with the assistant principal)
2. Be respectful of yourself and those around you.
3. Inappropriate language is not acceptable.
4. No food, drink, candy, or gum is to be consumed in the classroom.
5. No hats or electronic devices (cell phones, beepers, games, CD or MP3 players, ipods, etc.) are allowed in the classroom.

----- Cut Off -----

We understand the course description, requirements, rules and grading policy as stated above for
Mrs. Aiello’s Honors Anatomy & Physiology class.

We also understand that

*By signing this letter, both parents (or guardians) and students are aware that discussions, lectures, and appropriate video & computer images will be used to aid the topics related to all aspects of human anatomy and physiology.

Student Name (Please Print) _____

Student Signature _____ Date _____

Parent/Guardian Signature _____ Date _____