

Thomas S. Wootton High School – Human Anatomy & Physiology

Syllabus & Outline

2011 - 2012

Mr. Jake Buxton

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Human Anatomy and Physiology is a comprehensive course covering the structure and function of the human body. Students will need to review notes and readings daily in order to remain current with the large amount of information contained in the course. Students will be given a calendar at the beginning of each unit that will include the assignments, textbook readings and dates of quizzes, tests and practicals, as well as a brief description of what will be covered during each class period. Students can easily use this resource to schedule their review/study time.

Units:

- Semester 1 Unit 1: Introduction to Human Body/Histology
 Unit 2: Skin and Integumentary System
 Unit 3: Bones and Skeletal Tissues
 Unit 4: The Skeletal System
 Unit 5: Joints
 Unit 6: Muscle Tissue and Physiology
 Unit 7: Muscular System
 Unit 8: Digestive System
 Semester A Exam
- Semester 2 Unit 9: Cat Dissection
 Unit 10: Nervous Physiology
 Unit 11: Nervous System
 Unit 12: Special Senses/Endocrine Systems
 Unit 13: Cardiovascular/Lymphatic Systems
 Unit 14: Immune System
 Unit 15: Respiratory/Urinary Systems
 Disease Project
 Senior Exam/Semester B Exam
 Unit 16: Reproductive System/Human Development

Grading and Reporting:

The MCPS grading and reporting policy will be in effect, including re-teaching and reassessment.

- Only quizzes qualify for reassessment, tests may *not* be reassessed. I typically offer reassessment for one quiz per marking period. Students must complete relevant re-teaching activities prior to the reassessment of a quiz. The reassessment grade stands (not the higher of the two grades).
- The due date and deadline of all work will be the same (unless otherwise indicated by the instructor). Assignments not handed in before the **beginning** of the class period will lose 1 letter grade (10%). No work will be given any credit if handed in after this time.

- Any work that receives a grade must be independent work (class activities and labs may require group work, but answers/analysis must be your own).
- Any student who has not made a legitimate effort to complete an assignment will receive a zero (50% rule in effect only on work with evidence of effort).

The breakdown of grades used to determine a student's quarterly average in Human Anatomy and Physiology will be as follows:

Weight: 5% Homework

- A. Homework for practice/completion only

Weight: 45% Formative Assessments

- A. Labs - Laboratory experiences (including the dissection of a preserved cat and other mammalian organs) are a major focus of this course. All students will be expected to participate fully in these activities. *(approximately 20 formative points per lab)*
- B. Review exercises – These will typically consist of packets containing exercises that reinforce concepts covered in the readings and lectures. *(approximately 20 formative points per review)*
- C. Anatomy coloring book – Students will color plates that illustrate orientation, size, shape, etc. of various structures of the human body, both gross and microscopic. Many of the identification questions on quizzes and tests will come directly from the coloring book. *(5 formative points per plate)*
- D. Clinical cases and comparative anatomy cases – Students will work in small groups to answer questions related to cases I present to the class via Powerpoint. Typically these cases will involve an image (X-ray, CT scan, photograph, etc.) depicting a disease, disorder or injury and a series of related questions. Comparative anatomy cases will feature animals with particularly interesting anatomical or physiological traits and will focus on how they compare/contrast with humans. Students will draw from what they have learned in readings and lectures as they work through these cases. Cases will be written up in a composition book (will be provided and must be brought to class every day), which will be stamped for completion and collected and graded periodically. In each unit test (as well as some quizzes), several questions will come from these clinical cases. *(5 formative points per case)*
- E. Quizzes – There will be frequent quizzes (usually 2 per unit). They typically consist of 10-20 short answer and/or identification questions. *(20-40 formative points per quiz, typically)*

Weight: 50% Summative Assessments

- A. Tests – Tests consist of a variety of short answer, identification and essay questions. Science testing days are Mondays and Thursdays. In some units, a series of summative quizzes may take the place of a test. *(Approximately 80 summative points per test)*
- B. Practical Exams – Practicals involve identifying marked structures on preserved specimens, bone models, photomicrographs, etc. Practicals will also be held on Mondays and Thursdays. *(Approximately 80 summative points per practical)*

- C. Research Project – In the second marking period a project will be assigned to the students. The project involves creating a Powerpoint presentation on a human disease/disorder/injury and presenting it to the class.
(80 summative points)

Grading Scale:	90 – 100%	=	A
	80 – 89%	=	B
	70 – 79%	=	C
	60 – 69%	=	D
	< 59%	=	E

Materials:

Textbook – *Human Anatomy and Physiology Sixth Edition* by Elaine Marieb will be supplied. The companion website is an excellent review resource and can be accessed by visiting <http://www.phschool.com/access> and entering the following access code: SSNAST-SWANK-UPEND-KANZU-RUBBY-EANES.

Workbook – *Anatomy Coloring Book* by Wynn Kapit/Lawrence Elson will be supplied. Bottom must be clearly labeled with your name.

Composition book – Will be supplied for recording responses to clinical cases and comparative anatomy cases. Front cover must be clearly labeled with your name.

Fine-tipped felt markers or colored pencils – A minimum of 15 colors are needed. A gray colored marker/pencil is essential and light colors are superior to deep/dark ones.

3-ring binder, loose-leaf paper, pencils, pens

Expectations:

High expectations will be set for all students. Students are expected to come to class on time and prepared with the appropriate materials (see above). All students will be expected to listen, think, speak, read, and write on a daily basis.

Respect for all members of our class is expected at all times, deviations from this will not be tolerated. Mutual respect is vital to ensuring a healthy and positive learning environment.

Attendance:

Wootton High School's attendance and tardy policies will be *strictly* enforced – consult your agenda book. It is the student's responsibility to obtain any missed work. Laboratory work will be made up upon a mutual time agreement with the teacher.

Cheating:

Cheating (cheat sheets on tests, plagiarism, etc.) is a serious offense and will not be tolerated. Each incident of cheating will result in an automatic zero on the assignment and parents will be notified immediately. Academic integrity is extremely important and will be emphasized at all times.

Extra Help:

- Period 4, first 20 minutes– Room 288
- Before school or after school by appointment