

Hillcrest High School
Anatomy and Physiology Syllabus 2015-2016
Mrs. Reichelt

** Check out the website at: www.reicheltscience.com or email at reichela@d93.k12.id.us

Description:

Anatomy and Physiology is a one-year dual enrolment course with NNU that is designed as a 4 credit human biology course (3 lecture, 1 lab). This class can also be taken without the dual enrollment option. The emphasis is on integration of form and function of human body as well as genetics and ethics. Student will be developing inquiry skills and problem-solving techniques, which will provide the student with the basis for making wise career and personal choices in areas related to the biological sciences. The course will also familiarize the student with the influences and interrelated nature of science and technology in contemporary society. Students will investigate the major systems of the vertebrate body through laboratory experimentation, dissection, and reading/lecture. Emphasis is placed on human anatomy and physiology, and relevance is drawn to health-related occupations. This course does not apply toward major requirements in biology.

**Only honors course has the potential to receive college credit with NNU.

Course Objectives: By end of course student will be able to:

1. Recognize that the body is a unit, made up of many parts that work together to form the physical basis of life
2. Explain the major theories of biology as they apply to humans (chemical, cell, homeostasis, gene, and body systems)
3. Systematically dissect various organisms and their parts to compare their form and functions to humans
4. Research and perform an experiment of their own design, collect and analyze data, and draw conclusions based on their findings.

Learning and Preparation: Bring class materials to class daily

1. Lecture
2. Homework
3. Case studies
4. Reading
5. Project
6. Lab

Grading policy: Grades will be determined as follows.

Homework/assignments	= 10%
Labs/case studies	= 10%
Tests	= 40%
Semester exam	= 15%
Weekly written quizzes	= 25%

Total= 100% of grade per semester

Plagiarism

When doing a research project, it is normal to look at other person's work for information. When using another person's work, the researcher must give credit (cite) the original author. If the researcher does not give credit to the original writer, it is considered *plagiarism*. *Plagiarism* is using someone else's work directly or paraphrased without giving the original writer credit. (You are expected to do your own work. Failure to do so will result in an automatic zero for the assignment, quiz or exam.)

Textbook: Essentials of Human Anatomy and Physiology by Elaine N Marieb

Course Schedule: (tentative)

Week	Semester 1	Week	Semester 2
1-2	Chapter 1 Introduction to A&P <ul style="list-style-type: none"> Anatomy lab Body Systems Activity 	1-4	Chapter 7 Nervous system <ul style="list-style-type: none"> Reflex lab Project Chapter 8 Special senses <ul style="list-style-type: none"> Cow eye dissection
	Chapter 2 Basic Chemistry <ul style="list-style-type: none"> pH, Electrolyte lab Macromolecule lab 	5-9	<ul style="list-style-type: none"> Chapter 11, 12.1, 13 Cardiovascular, lymphatic and respiratory system
4-5	Chapter 3 Cells and Tissues <ul style="list-style-type: none"> Scaling lab Cell division lab Histology slides/ analogy lab 	10	Chapter 9 Endocrine system <ul style="list-style-type: none"> Case study
6-7	Chapter 4 Skin and Membranes <ul style="list-style-type: none"> Project Senses lab 	11-12	Chapter 10, 12.2 Blood and Defense <ul style="list-style-type: none"> Blood typing lab
8-10	Chapter 5 Skeletal system <ul style="list-style-type: none"> Skeleton and joint lab 	13-14	Chapter 14,15 Digestive and Urinary system <ul style="list-style-type: none"> Digestive system lab Metabolism lab
11-15	Chapter 6 Muscular system <ul style="list-style-type: none"> Movement analysis project Sliding filament theory lab Muscular lab 	15-16	Chapter 16 Reproductive system <ul style="list-style-type: none"> Fetal development video Microscope lab
16	Chapter 7 Neuron, Action Potential and Motor Unit <ul style="list-style-type: none"> Action Potential Lab 	17	Review
		18	Finals
17	Review week		
18	Finals week		

Consequences:

Not following rules: student conference, move seat, call or email home, parent teacher and administrator conference, referral

Following rules: positive class environment, positive feedback, positive calls or emails home

Miss School, Miss Out!

I have read and understand all parts of this syllabus and will abide by rules and expectations. - Thank you!
Please note the syllabus is subject to change.

Student name printed _____

Parent name printed _____

Student signature _____

Parent signature _____