# **ANATOMY AND PHYSIOLOGY HONORS**

#### PROSPECTUS

## Course Description

## Anatomy and Physiology is a college preparatory class with an emphasis on the structures and functions of the human body. Clinical applications develop problem solving skills within a real-life context.

**Instructor:** Andrea Wise [andrea.wise@cms.k12.nc.us](mailto:andrea.wise@cms.k12.nc.us)

### Resources

Textbook: Essentials of Human Anatomy and Physiology, 7TH Ed., Marieb,

Includes Student CD with animations, tutorials, images and quizzes.

Website:  http://andreawise.cmswiki.wikispaces.net/

Colored pencils are required for this class.

**SYLLABUS**

**Course Outline:**

### First Grade Period

# Human Body, Anatomy Terminology

Cells and Tissues- Cells of major emphasis through class:

*bone, skeletal muscle, neuron, blood, defense*

Skeletal System

Membrane Potential, Action Potential and Conduction

Muscular System

**Lab Activity**: Muscle Action

Nervous System

Special Senses

Digestive System, Metabolism, and Nutrition

##### Second Grade Period

Blood

Cardiovascular System

Body Defenses

**Lab:** Cardiovascular System, Blood Pressure

Digestive System, Metabolism, and Nutrition

**Major Lab:** Comparative Anatomy Lab

**Project:** Disease Project

Reproductive System

Endocrine System- All of the hormones learned during the class will be emphasized here.

**Grade Weights**

Formal (Tests, Quizzes, Projects) 70%

Informal (Warm-ups, Class Work, Participation 30%

Final Exam 20%

\*Note: In Honors A&P, and in many high school classes, exams can be very difficult. It is important to go into exams with the highest possible scores.

**NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PER \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

# August 27, 2018

Dear Anatomy and Physiology Students and Parents,

Students, you are to be commended on taking an active role in preparing for your future and taking Honors Anatomy and Physiology. This class will give you a strong foundation in Human Anatomy, whether you are planning a career in a health profession, or are simply interested in the subject and wish to learn more.

The course will be taught as a transition to college level courses, and the majority of the final grade is based on your test scores. Test and quiz scores, including major laboratory write-ups and major projects, will account for approximately 70% of your grade quarter grade, labeled as “formal” in Power School. Class work and homework will account for the remaining 30% informal grade.

To help ensure your success, consistent effort must be made. By its nature, Anatomy and Physiology involves a great deal of terminology and identification, thus you will be expected to study regularly. I also recommend forming study groups. Our workbook includes an anatomy-coloring book, a method for improving understanding of physiological processes. A set of **colored pencils** will be used regularly. Parental awareness is known to enhance achievement. Contact information will help me keep you informed of progress. My e-mail address is:

**[andrea.wise@cms.k12.nc.us](mailto:Andrea.wise@cms.k12.nc.us)** My website address is <https://awisestudents.weebly.com/> and is linked to the PHS faculty page.

I am available for extra help and make up work on Tuesdays after school, and by appointment.

I have successfully avoided assessing a lab fee with voluntary contributions of materials to the class. The items listed below are always appreciated. Donations are optional and the value is generally $3-5. Any one of the following will be appreciated:

* ***Latex or plastic exam gloves***
* ***Paper towels 4-5 rolls***
* ***Zip-lock bags 1 pkg (sandwich or gallon size)***
* ***Distilled water 1 or 2 gallons***
* ***Packing tape***
* ***Kleenex- 3 or more boxes***
* ***Gelatin- unflavored, 1 or 2 boxes***
* ***AA Batteries***
* ***Plastic bathroom cups (small)***
* ***Looking for an old, no longer used soup pot, 4 quarts or larger, to make an inexpensive hot water bath.***
* ***I also accept donations for lab supplies!***

Truly,

Andrea Wise

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Student Name Student Signature Date

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Parent Name Parent Signature Date

Please list any contact information you would like to provide.

Phone number (day) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Phone number (eve)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

E-mail \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Do you have any experiences in a related field that you would be willing to share with this class? \_\_\_\_\_\_

If so, please describe briefly.

**ANATOMY OBJECTIVES AND POLICIES WISE**

1. MAIN OBJECTIVES
   1. Use problem solving skills to solve scientific problems.
   2. Respect living things: yourself and other organisms.
   3. Practice independent study skills and prepare for work at the university level.
2. POLICIES
   1. All that we do should encourage the success of all students.
   2. Be prepared for class. Each day, you will need to bring paper, black pens, pencils, your notebook and other materials that I may specify.
   3. REMAIN SEATED unless you are told to do otherwise.
      * Sharpen pencils before class
      * Do not crumple wastepaper. Put paper in the recycling box at the end of class.
   4. There may be lab equipment in your room or on your desk when you come to class.
      * Wait until you are instructed before handling equipment.
      * Handle all equipment carefully and according to safety rules.
      * Clean up all lab work and return equipment to the appropriate place at the end of class.
   5. Students are not permitted in the prep room without permission.
   6. Never copy the work of another student. Both the copier and the student who allowed their work to be copied are subject to disciplinary action.
   7. No food, drink, or gum chewing will be permitted during labs.
   8. Since there is only one sink, hands are washed in restroom after area is cleaned to instructor’s satisfaction.
   9. Aisles must remain clear.
   10. You are expected to use *your own* *agenda* for restroom passes.
   11. In case of unexpected school closing (ie: snow day) see your class’ web page for instructions. Instructions will be posted by 10:15 am

l. THIS IS A NO SMEECHING CLASSROOM!!!!!!!

Smeeching- Getting out of your seat for valid or non-valid purpose,

and then distracting another student.

m. When borrowing equipment, such as an iPad, never take personal photos or change the settings or screen saver.

n. Note that makeup tests and labs are done after school. This is important to note if you have early release.

o. Electronic devices may not be used for communication (posting, texting, calling) during class.

p. Please dress in layers and do not bring blankets to class.

1. LATE WORK
   1. Late work must be completed and handed in by FRIDAY of the week it is due.
   2. You will receive reduced credit for late work.
   3. Write “Late Work” on the top of the paper, and the date it is turned in. Add “Absent” if absent. Place in “Late Work” tray. (Without a note at the top, proper credit may not be given). The assignment grade is recorded as 0 until completed work is graded.
   4. Online assignments: Due on the due date during your meeting time, but you are often given an automatic extension until 10 pm in case you have technical difficulties.
2. ABSENCES/ MAKE-UP WORK
   1. You will be provided with a calendar including assignments. If you should miss a class, you are responsible for missing work and assignments posted on calendar for the day of your return. Sharing contact information with study partners is a tip that can help take some of the sting out of missing a day.
   2. I CANNOT discuss make-up work with you during class, we will be busy with that day’s assignment. Instead, we can set up a time to meet. I have tutoring on Tuesdays after school and by appointment.

1. MATERIALS**- 3 Ring Binder**- You will have all your graded papers to prepare for tests, and “just in case”. Bring black pens and paper each day. We will use **colored pencils** regularly.