



**Anatomy and Physiology
Science
Mr. McKinney
Grades 11-12
Highland Park Senior High (Room 3205)
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I. Course Summary

Welcome to Anatomy and Physiology. This is an upper level science elective course designed to prepare students for college and the medical field. We will be studying the form and function of the human body in great detail including the physiology of body systems on a molecular level. In this class we will be studying biochemistry, cell biology, histology, anatomy of all the human body systems, physiology of all the human body systems, and how the systems interact with each other.

II. Units of Study

Topics: Intro to body systems, Tissues, Nervous System, Cardio-Vascular System, Respiratory System, Immune System, Muscular System, Skeletal System, Endocrine System, Reproductive System, Integumentary System, Digestive System, and Excretory System.

IV. Text/Resources

The Text we will be using this year is *Hole's Essentials of Human Anatomy and Physiology* Tenth Edition by Shier, Butler, and Lewis. There will be a classroom set of books available as well as all powerpoints and notes will be posted online. .

V. Methods of Assessment

Summative assessments will include lab reports, unit examinations, presentations, as well as group and individual projects. Formative assessments will include homework, in class activities, and smaller quizzes.

ALL GRADING FOLLOWS THE HIGHLAND PARK GRADING POLICY FOUND ONLINE

Labs: Laboratory work is a large part of IB and labs are designed to reinforce class concepts and to give opportunities for investigation. Lab work is typed when it is turned in for assessment. You will be given ample time to prepare final lab reports. Labs have their own rubric and many details are posted online for constant student review. Sample labs are posted in the classroom. This will all be reviewed in class.

LAB FEE: Anatomy and Physiology is a lab based course that uses many consumable (non-reusable) materials. Please consider a \$10.00 suggested lab fee per student. If you're able to donate more, all money is used for the students and their learning. Checks can be made out to Highland Park Senior High School.

DISSECTIONS: In order to learn Anatomy and Physiology dissections are a required part of this course. In the past we have dissected organs and organisms such as: Cow Eyes, Hearts, Fetal Pigs, and Minks. It is my expectation that students participate in dissections (This can be observing as part of a group, drawing, or actually performing the dissection). If a student is unable to participate it is the individual's responsibility to speak with me to figure out a plan.

- VI. Prerequisites:** In order to take Anatomy and Physiology students should have successfully completed chemistry and biology with a grade of C or higher. This course relies on previous knowledge of cell biology as well as chemical interactions.
- VII. Safety:** The safety of students is a top priority. All students will receive the Flinn Safety Contract and are expected to sign the contract. All regulations outlined in the safety contract need to be followed. A legal guardian will need to sign the contract as well.
- VIII. PLEASE NOTE THE CELL PHONE POLICY HAS CHANGED. IF YOU HAVE QUESTIONS PLEASE ASK.**

Teacher Expectations: I expect your best. Some people may wonder what does that mean?

Your Best at Engagement:

- Come to class everyday with a positive attitude, **ready** to learn
- Ask questions, stay involved with the topic
- Give 100% effort in everything you do. That doesn't mean your perfect but you truly gave it your all.

Your Best at communication:

- If you need help ask!! I'm here to help you learn
- Schedule appointments with me if you need help
- Communicate positively with students from many different backgrounds. I expect respect for all students!
- Show positive non-verbal communication. Is your phone away? Is your posture showing you are ready to learn? Are your eyes tracking the information?

Your Best Self:

- Be Kind
- Be Respectful
- Be Positive
- Be Curious and Inquisitive
- Be Ready to give your best every day.

Thank you,

Matt McKinney

