

Anatomy and Physiology Syllabus

2023-2024 School Year

ENTER YOUR NAME HERE

I. Course Description and Requirements

This upper level science course is designed to provide students with a thorough understanding of how the organ systems within the human body work together to maintain homeostasis, and how a failure in homeostasis results in a disease or health issue. The course was designed with a focus on hands-on and creative assessments that cultivate students' critical thinking, research, and communication skills – both orally in class discussions as well as in written forms. Each unit includes laboratory work in the form of traditional labs and/or simulation activities, the study of specimens, and research-based projects. Students should be prepared to conduct research, work in small groups as well as independently, write scientifically, and communicate their understanding in a variety of methods. Day-to-day instruction methods include teacher-lead instruction, group work, student seatwork, project-based learning, and lab exercises with both student-choice and teacher-choice grouping. Students can expect to start each day with a bell ringer assignment followed by learning activities and lecture. At times students will work independently from the teacher in order to achieve the level of student autonomy expected of upperclassmen students. Classes are structured to utilize every minute for learning and assessing understanding. Real world application is a daily objective. Higher-level thinking will be incorporated into each lesson as well as use of technology, when applicable, to increase student achievement. Students are expected to participate in all activities and actively engage and ask questions during teacher-led lecture. Students are also expected to review and study the content covered in class outside of school daily.

II. Class Expectations

- Students are expected to **be present** and active members of the classroom each and every day.
- Students are expected to come to class **prepared** with all necessary materials and completed assignments to learn and participate in all lectures and activities.
- Students are expected to **be respectful** of the teacher, the classroom, and their peers.

III. Class Discipline

Students who are not acting present, coming prepared, and being respectful will earn one of the following consequences:

- Warning in class
- Removal from class activity AND parent contact
- Teacher/Student conference during or after class AND parent contact
- After school detention AND parent contact
- Written referral and removal from class AND parent contact

Any student caught cheating on an assignment will receive a zero and referred to administration.

IV. Required Materials

All students must come to class each day with the following materials:

- A 2-inch three-ringed binder with dividers, paper and EACH UNIT PACKET!!!
- Pencil

V. Assessment and Grading Plan

We will cover seven units over the course of the year. Each unit consists of 1-4 major assessments. The amount of minor assessments varies per unit. Students will have a daily open-note quiz each day that will add up to a weekly minor grade. All unit tests include both multiple choice and open response questions. **Note: Assignments checked for completion will not be accepted late. Assignments collected and graded for accuracy will be accepted late with a penalty of 10% off every day late.**

***Under absolutely NO circumstances will late work be accepted after the completion of the unit the work is from, unless the student had an excused absence in which case they receive only 5 days to turn in the work.*

Minor Assessments - 40%

- *Classwork/Informal labs:* Each unit is packed with engaging activities and practice to help master the

content. These assignments range from 15-100 points, depending on the length and depth of the material.

- *Daily quizzes*: At the start of each day the students will complete a small quiz over content covered during the previous class period. Students who were absent the previous class period will not be expected to complete the Prime Time the day they return if it is over content they missed. Their grade on each day's quiz will be added up for one weekly Prime Time grade of 25 points at the end of each week.
- *Study guides*: Students will be required to make study guides for each test to help them review the material each day and prepare for the unit tests. Study guides will be made off of the first sheet of each packet by answering the objectives and defining the vocabulary for each concept. Every concept study guide is worth 10 points. Students who make A's on two tests in a row are exempt from completing study guides if they continue to maintain A's on the unit tests.

Major Assessments – 60%

<u>1st Semester</u>	<u>2nd Semester</u>
<p>Unit 1: Introduction to Anatomy</p> <ul style="list-style-type: none"> - Biology Review Quiz (25 pts) - Anatomical Terminology Quiz (25 pts) - Feedback Mechanisms Inquiry Investigation Formal Lab Report (100 pts) - Unit 1 Test (100 pts) <p>Unit 2: Support and Motion</p> <ul style="list-style-type: none"> - Skeletal System Quiz (25 pts) - Movement Quiz (25 pts) - Muscular System Quiz (25 pts) - Movement Video Project (100 pts) - Unit 2 Test (100 pts) <p>Unit 3: Control and Coordination</p> <ul style="list-style-type: none"> - Central Nervous System Quiz (25 pts) - Endocrine System Quiz (25 pts) - Central Nervous System Project (100 pts) - Unit 3 Test (100 pts) 	<p>Unit 4: Transport</p> <ul style="list-style-type: none"> - Cardiovascular System Quiz (25 pts) - Defects and Diseases Model Project (100 pts) - Unit 4 Test (100 pts) <p>Unit 5: Absorption and Excretion</p> <ul style="list-style-type: none"> - Digestive System Quiz (25 pts) - Digestive System Children's Book Project (100 pts) - Unit 5 Test (100 pts) <p>Unit 6: Protection</p> <ul style="list-style-type: none"> - Integumentary System Quiz (25 pts) - Effectiveness of Sunscreen Inquiry Investigation Formal Lab Report (100 pts) - Skin Model Project (100 pts) - Unit 6 Test (100 pts) <p>Unit 7: Reproduction</p> <ul style="list-style-type: none"> - Pregnancy Project (100 pts) - Unit 7 Test (100 pts)

The final grade is calculated according to the following percent values:

1st semester grade = 50% of final grade
40% Q1, 40% Q2, 20% Midterm Exam

2nd semester grade = 50 % of final grade
40% Q3, 40% Q4, 20% Final Exam

Students wishing to exempt a midterm or final exam must have a semester average of an A or have received a 70% or higher on ALL homework assignments.

VI. Communication

I will regularly post on my class website updates, announcements, lecture notes, and assignments for students and parents to access. If you ever want to know something, check the website first! Students and parents are also encouraged to contact me via email. I will respond to all emails within 24 hours during the school week, and can respond in much more detail and speed than if you attempt to call. Students are also strongly encouraged to attend after school tutoring from 3-3:30 if they ever need help!

Email: [ENTER YOUR EMAIL HERE](#)

Class Website: [ENTER YOUR WEBSITE HERE](#)

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Please sign and return the bottom portion by _____.

Parent Signature: _____

Preferred Contact Information: _____