

9th Grade Anatomy Syllabus

Fall 2017

Major Topics:

Skeletal System

- Anatomy through the ages
- Proportions and ratios
- Bone form and function
- Bone growth and development
- Bone cellular structure and chemistry

Musculature

- Integrated systems of muscle and bone
- Mechanics of movement
- Muscle types and cell structure
- Smooth Muscle

Circulatory System

- Heart structure
- Within a heartbeat
- Oxygen and the blood
- Blood cells
- Response to exercise and stimuli

Lungs and Skin

- Bronchus, bronchioles, alveoli
- Exchange of gases
- Significance of surface area
- Features and functions of skin

Viscera (if time allows)

- Gastrointestinal Tract
- Internal organs

Grading:

- ❖ Class Participation: 40%
- ❖ Main lesson book: 30%
- ❖ Tests: 20%
- ❖ Drafts: 10%

A Sampling of Questions We Will Address:

-What are various applications of anatomical knowledge?

-What parts of the human body are NOT symmetrical?

-How much blood do you have flowing through your veins? What does it do?

-Some scientists say we have a new skeleton every seven years. What do they mean?

-Why do astronauts lose so much of their skeleton so quickly?

-How does conditioning and exercise actually CHANGE our circulatory system?

-What is the slowest heart rate ever recorded in an athlete?

-What are normal ranges of blood pressure and heart rate? How do we measure these?

-What is the role of each internal organ?

-Which human organ has the most surface area?

Student Requirements¹

Class Participation: Graded daily. To receive full credit for participation, students must be:

- 1.) On time and prepared.
- 2.) Engaged (writing notes, listening, completing in-class activities, and participating in discussions).
- 3.) Respectful of others and space (avoiding disruptions, cooperating during projects, focusing during work time, and cleaning desk/lab space before leaving).

Main lesson book: Should begin with an illustrated title page (course, name, date) followed by a table of contents. Material covered in class will be addressed in activities, illustrations, and original compositions assigned in class. On average, this will amount to a little over half a page of writing per day with an accompanying illustration. **Books will be due at the start of class every Friday to receive a final grade for that week.**

Tests: Typically given once a week, students will be notified at least two days in advance of an approaching test. This allows students to study multiple times in advance. Good test performance typically requires intentional preparation. If you need ideas for potential study techniques, please consult with me. Our goal will be to find the study technique that works best for you.

Attendance

Students will be required to attend all classes on time and adhere to all school absent/tardy policies. Absences will only be excused if prearranged, or the school has been notified of illness or emergency by the student's parent or guardian. Students are responsible for obtaining any missed work or assignments. (Please see Student Handbook for a full explanation of all attendance policies).

Student Behavioral Expectations

In addition to being punctual, it is expected for all students to be considerate and respectful of all members of this school. It is asked that all students actively listen to the teacher *and to each other*. Class discussions are encouraged but are only possible with student participation. If you, the student, tackle this material, and the ideas therein with determination and curiosity, you will have things to say; you will also have things to discover both from research and one another. It is expected that each student will respect this learning space. Labs and desks must be left clean and organized by the end of each class.

Extensions and Deadlines:

All work is due on the assigned day. In the case of absence, minor assignments may be handed in the following class day if the absence is an excused absence. (Please see your Student handbook for a thorough explanation of the school absence and late work policies). Late assignments that are not prearranged or from an excused absence are NOT accepted. If you have questions or concerns, please contact me before the due date in order to make other arrangements. For minor assignments, this is at least one class day before the deadline. For major assignments, students must submit a Request for Extension Form 48 hours in advance, which is available in the High School Office or on the website: <https://portlandwaldorfhs.wordpress.com/forms>

¹ The following sections are copied and modified from work by Ms. Blanchard, with permission.

Planned absences must be arranged through the High School Office, and the student is responsible for obtaining a Planned Absence Form, getting it signed by all teachers, advisor and parent/guardian. This must be turned in prior to absence. The student is responsible for turning in any missed work ON TIME. Major assignments due on the last day of a course are not accepted late. It is the student's responsibility to arrange to get work, such as a Main Lesson Book, turned in on time even if they are ill.

As your Anatomy teacher, I want you to succeed! For real! If you have questions or concerns, please ask early and ask often! This will significantly help me help you.

Plagiarizing and Cheating

Do not plagiarize. Plagiarizing is a form of academic dishonesty wherein you try pass someone else's ideas as your own. This can happen when writing without the use of proper citations. To avoid this, quote your sources accurately, and cite them properly and often. When in doubt, give credit where credit is due!² This particularly applies to non-lecture sources.

Please do not cheat. Cheating is when your work is not your own; whether that is copying homework or during an exam, it is taking someone else's work. This is also a form of academic dishonesty and does not show me the caliber of your work and striving. Plagiarizing and cheating are serious offenses and will be treated as such according to official school policy and may result in loss of credit and failure of this course. Further, they damage your integrity, my trust, and cheat you out of a chance to earn the fruits of your own work. (Please see the Student Handbook for a full explanation of PWS's Academic Honesty policy).

REVIEW OF PWHS HOMEWORK POLICIES

- All homework is due at the beginning of class.
- All late assignments result in a minimum of a 10% reduction of the final grade for each class day late. (Please note, some teachers, like Ms. Blanchard, do not accept late work.)
- All assignments due on the last day of the course MUST be turned in that day, unless student has filed for an extension 48 hours in ADVANCE. (Please see Student Handbook for a full explanation of all late/missed work and absence policies).

² Again, this section and following sections are copied and modified from work by Ms. Blanchard, with permission. Better to be safe than sorry when crediting sources!