

Anatomy and Physiology Course Syllabus and Outcomes
Saugatuck High School, Mr. Smit

857-2133 ext.121, bsmit@saugatuckps.com, www.smitlifescience.weebly.com

Anatomy literally means the study of structure and **Physiology** means the study of function. In this class, the focus of study is on the *structure, function* and *disease* associated with the human body. The class is designed to familiarize students with the different systems of the body while focusing on these three aspects, and is meant to help prepare students interested in a health sciences career. Therefore, dissections will be a part of the course.

Teaching Philosophy

My approach to education is constructivist in nature. I believe deep learning occurs when students are active in the constructing of their knowledge while in the midst of solving a problem or working towards a larger goal or essential question related to the unit topic. This approach can be challenging in a traditionally lecture-based course such as Anatomy. However, I believe all students can learn, and learn best, when they are appropriately challenged with interesting real world issues and problems. To accommodate this style of learning, I see my role as a teacher as more of a guide to discovery of knowledge rather than that of an all-knowing transferor of knowledge. I choose to help students find the answers they seek, rather than simply give them the answers.

Topic Outline

Anatomy A

General Introduction to the Study of Anatomy.
Cells and Tissues
Organ Systems of the Body
Mechanisms of Disease
Integumentary System
Skeletal System
Muscular system

Anatomy B

Nervous System and the Senses
Endocrine System
Cardiovascular System
Respiratory System
Digestive System
Reproductive System
Ethics of Science and Society

Essential Outcomes

Upon completion of the course, it is my hope that students will:

- Have acquired new knowledge and skills to enhance their experience with the Michigan Science Curriculum or in future college coursework.
- Have successfully demonstrated knowledge of the anatomical topics covered in class in meaningful ways and feel well prepared for a possible career in the health sciences.
- Have gained a new appreciation for the incredible living body they have and make wise choices in their care for themselves.

Suggestions

This class will be demanding. Try to do a little review every day so you do not have to “cram” for tests and quizzes. By reviewing each day you will master new vocabulary, and this will help with your higher-level assignments. **Always** see me during and after school if you are having trouble, regardless of athletic or extra curricular schedules. Your coaches are just as interested in your good academic standing as you should be.

Student Assessment

Not all homework or assignments are worth the same value. Some assignments are graded and some are not. Some may be considered credit or no credit, and some will be worth varying amounts of points. Still others may be returned to you with comments only. All of the assignments are designed to help you master the material we are covering and to help you **learn** the subject matter, not merely **earn** a grade. When you start to view assignments this way, it will be much easier for you to do well on the very important end of course and unit assessments.

Grades are determined at the end of each trimester using the grade scale in the student handbook and the following criteria:

10% Daily Learning Tasks ([PowerSchool Label – Homework](#)):

- Worksheets and various homework tasks such as bell ringers, study guides, and practice problems completed in your Google Anatomy Journal.
- Type 1 writings, and Type 2 writings.
- Google Anatomy Journal Entries.

30% Application and Performance Tasks ([PowerSchool Label – Quiz](#)):

- Labs and lab write-ups, article reviews and other various performance assessments.
- Type 3 Writings for display of knowledge and critical thinking.

40% Tests and Projects ([PowerSchool Label – Test](#)):

- End of unit tests covering 1-2 chapters.
- Unit projects that act as the final assessment of knowledge for that unit's subject matter.

20% Trimester Exam:

- Comprehensive assessment of knowledge from the entire trimester. Multiple choice and vocabulary questions in a standardized test format that is approximately 100 questions.

If you miss a test or quiz due to an excused absence it is not a problem. You will need to take the test or quiz however, on your own time. You will be given the same amount of time you missed to make up the test. If the absence is unexcused you will receive a zero. Quizzes may be taken over provided they are during office hours or other times rather than the class period after some instruction and discussion of your results and may require additional work to show student understanding of the content.

All tests and exams will be curved to the highest grade received by a student who took the test the scheduled day within reason. Students whom did not take the test on the scheduled day will not be subject to the curve.

Please take some ownership of your grades. You should be checking your grades on PowerSchool every few days. You should never have a reason to say to your parents, your coaches, or myself that you did not know you were missing any assignments, or were doing poorly. College is less than a year away for most of you and this class should give you a feel for what it will be like.

Expected Conduct

Timeliness - - Be here on time and in a seat when the clock signifies the beginning of class. Assigned seats are only necessary based on your conduct.

Technology - It is expected that you are here to learn. Therefore, your use of technology should be focused on learning. Do your messaging, gaming, and other non-school related use of technology in-between classes.

Respect - I will treat you with respect and expect to be treated the same way. I will allow you to do anything that shows respect to all people and property in this room. I will **always** expect you to participate in the day's activities.

Consequences

Infractions of attendance policies and school rules will be handled as stated in the parent- student handbook. An appropriate consequence will be issued to any student whom chooses **not** to demonstrate expected behaviors. This will mean referral to the SRC and parent and principal contact. Academic honesty is at a premium in this class. Students caught cheating on tests, exams, and quizzes will receive a zero for that assessment. Multiple infractions will result in recommendation for removal from the class.

To the student and parents or guardians,

Please read the policies and expectations above. By working together, we can make this a great year. If you ever have questions please do not hesitate to call me at school. Before 7:30 am and after 4:00 pm you can always leave me a voice mail or you may e-mail me. I will always try to return your call as soon as possible.

School (269) 857-2133 ext. 121 bsmit@saugatuckps.com

