



Continuing a Culture of Excellence

Anatomy and Physiology

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Conference Period: Second Period 10:00am – 10:50am

Tutoring Opportunities: 8:00am-8:40am Monday-Wednesday; 4:30pm-5:00pm Tuesday-Thursday; Friday by appointment only

Class Materials:

- One composition notebook, college rule, at least 100 pages
- One package of nitrile or vinyl gloves, at least 50 count, NO LATEX
- One box of colored pencils, at least 12 colors
- Two packages of 100 count 3 by 5 ruled notecards
- Students may choose to either bring one box of Kleenex or one container of Clorox wipes
- We will use Canvas for online and blended learning opportunities
- To access the online textbook, take your unique login information and go to <https://connected.mcgraw-hill.com/connected/login.do>. Enter your login and password, then you can access the eBook or other online study resources.

Access to Canvas and Office365 tools is available to students through our [Single Sign-on Portal \(SSO\)](#). Students receive their SSO login during enrollment.

Course Description:

Anatomy and Physiology is a comprehensive study of the structures and functions of the human body. This course will include dissections and the study of the organization of organs and organ systems. Students will utilize critical thinking skills and scientific problem solving as they conduct lab investigations.

Course Goals:

Students who complete this course successfully will be able to:

- Speak and communicate with others using proper medical terminology pertaining to anatomy and physiology
- Fluently engage with laboratory and field investigations in pursuit of more knowledge about the structure and function of the human body
- Create dialogues, essays, presentations, and express factual and opinion-based information in scientific terms
- Read scientific passages about anatomy and physiology with full understanding and comprehension
- Think critically about clinical scenarios and utilize your new knowledge of anatomy and physiology to diagnose potential ailments of the patients in these scenarios

- Think critically, form opinions, and predict future trends concerning past, current, and emerging technologies and treatments as they pertain to the health care industry and future career opportunities in health sciences

Student Evaluation:

The grading system for this course is as follows:

- Grade averaged 60% Major 40% Minor
- Major grades – tests (including District Common Assessments, six weeks assessments, projects, final essays, research papers, presentations); minimum three per six weeks
- Minor grades – quizzes, daily assignments, journals; minimum ten per six weeks
- Semester exams will count 1/7 of the semester grade
- A letter system (S, N, U) is used to report a student’s conduct based on proper/responsive conduct and citizenship
- Per Board Policy EIA (LOCAL), “The District shall permit a student who meets the criteria detailed in the grading guidelines a reasonable opportunity to redo an assignment or retake a test for which the student received a **failing** grade. This policy applies only to initial identified major grades and does not apply to daily assignments, quizzes, six-week test, and semester final examinations. Upon reteach and retest, the new test, project, etc. recorded will be a high score of 70%.

Assignments, exams, expectations outside of the classroom:

Major assignments will consist of laboratory activities, presentations with a research component, and written exams. Students will need to read sections of our textbook prior to certain class lessons and will read and explain other sections during in-class activities. Besides some reading, other work outside of class will consist of creating flash cards for key vocabulary and completing coloring sheets, which clarify student understanding of particular anatomical structures and their functions.

Attendance/Tardy Policy/Make-Up Work:

Please find EMSISD’s attendance policy in the Student Handbook at the following link:

<https://www.emsisd.com/cms/lib/TX21000533/Centricity/Domain/49/2018-19%20Student%20Handbook-Code%20of%20Conduct%208.6.2018.pdf>

Boswell High School’s Tardy Policy resets every six weeks. Consequences include:

First and second tardy: Warning

Third tardy: Discipline referral with PM detention

Fourth and fifth tardy: Discipline referral with Saturday School and/or In School Suspension

Please find EMSISD’s make-up work policy in the Guide to Grade Reporting at the following link:

https://www.emsisd.com/cms/lib/TX21000533/Centricity/Domain/4052/EMS%20ISD%20GRHB%202019-2020%20DRAFT_6-27-19.pdf

If a student is absent and needs to make up work that was not picked up during the absence, they may receive extra help and further assistance with time management during scheduled tutoring hours.

Classroom Expectations:

- You have the right to learn in a safe and productive classroom environment, and you have the responsibility to conduct yourself in a manner that keeps the learning environment safe and productive for everyone
- Students will follow directions quickly and make wise choices about managing their time in class.
- This class will have dissection of preserved biological specimens. Prohibited items in the lab include food, drink, and gum, and these are highly discouraged in the classroom area. Students should follow all safety guidelines whether in the lab area or not.
- Technology is a privilege. Put it away willingly when it is not part of the lesson
- Be encouraging to all your fellow students. You never know what someone is struggling with, so always build each other up!

Preliminary Schedule of Topics, Readings, and Assignments

All units will have a major project or exam grade along with any labs listed.

- First six weeks: Chapters 1-8
 - Foundations & Vocabulary
 - Vitruvian Man
 - Cells and Tissues
 - Cells and tissues rotating lab
 - Membranes and the Integumentary System
 - Integumentary system rotating lab
- Second six weeks: Chapters 7-9
 - Skeletal System
 - No Bones About It rotating lab
 - Muscular System
 - Chicken wing dissection lab
 - Anatomy In Clay system muscle building lab
- Third six weeks: Chapters 10-13
 - Nervous System
 - Clay brain building
 - Brain dissection
 - Sensory Systems
 - Eye dissection
 - Endocrine System
- Fourth six weeks: Chapters 14-16
 - Blood
 - ABO blood typing simulation lab
 - Cardiovascular System
 - Heart dissection
 - Lymphatic and Immune System
- Fifth six weeks: Chapters 17-19
 - Respiratory System
 - Digestive System & Nutrition
- Sixth six weeks: Chapters 20-22

- Urinary System
 - Kidney dissection
 - Urinalysis
- The Male & Female Reproductive Systems
- Cat dissection (minks will be ordered for students with allergy concerns)

Academic Integrity:

Academic integrity values the work of individuals regardless if it is another student's work, a researcher, or author. The pursuit of learning requires each student to be responsible for his or her academic work. Academic dishonesty is not tolerated in our schools. Academic dishonesty, includes cheating, copying the work of another student, plagiarism, and unauthorized communication between students during an examination. The determination that a student has engaged in academic dishonesty shall be based on the judgment of the classroom teacher or other supervising professional employee and considers written materials, observation, or information from students. Students found to have engaged in academic dishonesty shall be subject to disciplinary and/or academic penalties. The teacher and campus administrator shall jointly determine such action.