



HONORS CTE Anatomy/Physiology/Intro. to Sports Medicine COURSE SYLLABUS OUTLINE

2023-2024

INSTRUCTOR: Mrs. Schweigert school email: nschweigert@lhusd.org

COURSE DESCRIPTION:

Anatomy & Physiology Introduction to sports medicine is an inquiry-based laboratory course that helps students discover the wonders of the human body. The structures and functions of the major body systems will be explored from a subcellular level to a multicellular organism level.

Students will gain knowledge of the human body through lecture, research and reading, and laboratory

investigations, including several dissections. **IF YOU DO NOT PLAN TO PARTICIPATE IN**

THE LAB DISSECTIONS, YOU SHOULD NOT TAKE THIS COURSE.

WE WILL SPEND 1-3 HOURS PER WEEK IN LABORATORY.

This course introduces techniques used to investigate questions in life science (anatomy/physiology) and applies to any student interested in discovering the inner workings of the human organism, and not necessarily going into the medical field.

REQUIRED TEXT:

We will be using a variety of resources during the year, but the majority of the content will be derived from the following book: Fundamentals of Anatomy/Physiology 11th edition

We will also be utilizing Google Classroom for assignments, notes, videos, etc. More detail will be given at the beginning of the semester.

SUPPLIES / RESOURCES:

Please bring to class each day:

- Science notebook for information and any handouts I distributed for working in class (3 ring binder)
- Pencil and blue or black pen
- Highlighter (any color)
- **your SCHOOL-PROVIDED computer, fully charged and ready to work with EVERY DAY**

GRADING PROCEDURES:

Assessments will be given on each instructional unit and will be based upon assignments/notes given in class as well as activities that correlate with the subject matter. Laboratory investigations are a regular part of the course and outside of class projects may also be assigned.

Grades are determined using a weighted average based on the following percentages:

- Assessments.....45%
- Assignments.....30%
- Quizzes.....25%
- Exams are primarily multiple-choice. Additional question types (i.e. matching, true/false, fill-in, short answer, essay, labeling, etc.) may also appear based on the nature of the assessment and teacher preference.
- The LHHS policy is that final exams must account for 20% of the final course grade.
- The final grade is an accumulation of the grades for EACH SEMESTER, which includes a PROJECT EACH SEMESTER (project is worth 20% of final exam grade EACH SEMESTER)

Grading Scale:

100 – 89.5: A
89.5 – 79.5: B
79.5 – 69.5: C
69.5 – 59.5: D
< 59.5 F

Academic dishonesty:

Cheating and plagiarism are Third Class Offences at LHHS .This policy will be strictly enforced in the Anatomy classes. The consequences for cheating and plagiarism range from detention to school suspension and a Board hearing. Each violation may result in complete loss of credit for the assignment.

APPLE WATCHES MAY NOT BE WORN ON QUIZ/TEST DAYS OR ANY DAYS THAT AN ASSESSMENT IS BEING GIVEN.

TOPICS:

Semester 1

Ch 1,3,5

First 9 weeks

Chapter 1: The Human Body, An Orientation

Medical Terminology – an introduction to the basics of the language of anatomy

Chapter 3: Cells/transport systems and Tissues

Chapter 5: Integumentary system (skin, hair, nails)

Ch 6/7/8, 9, Ch. 10/11.

Second 9 weeks

Chapter 6/7/8: Bone structure/axial skeleton/appendicular skeleton

Chapter 9: joints/articulations

Chapter 10: muscle tissue

Chapter 11: muscles

Semester 2

Ch 12/ 13/14 , Ch 17, Ch 19/20/21

Third 9 weeks

Chapter 12: Nervous tissue

Chapter 13: spinal cord/reflexes

Chapter 14: Brain

Chapter 17; Eye

Chapter 19/20/21:/Blood/Heart/Blood Vessels

Ch 23,24,26 Fourth 9 weeks

Chapter 23: Respiratory System

Chapter 24: Digestive System

Chapter 26: Urinary System

I reserve the right to modify this schedule as I see fit.

LABS:

DISSECTIONS

SHEEP BRAIN ?

COW'S EYE

BEEF HEART

FETAL PIG

ANATOMY IN CLAY PROJECTS

MUSCLE CREATION

JOINT MODELS

SHOULDER

KNEE

MOVEMENT IN EXERCISE LAB

BLOOD TYPING SIMULATION LAB

URINALYSIS SIMULATION LAB

MISCELLANEOUS INFORMATION

Students should refer to all policies outlined in the LHS Student Handbook.

I can be reached by email at nschweigert@lhsd.org

HOMEWORK POLICY

Purpose:

Homework should be purposeful, intentional, and relevant to instruction. All types of homework should promote high quality learning and achievement. Teachers introduce new concepts, information, and skills in school, **not** in homework. In this class, your homework will **MOSTLY** consist of daily studying of the concepts introduced in class that day.

Time:

Time spent on homework should be purposeful in terms of learning and skill acquisition.

Since homework will VERY RARELY be assigned, I would expect you to spend at least 10-15 minutes EVERY NIGHT studying to ensure an understanding of the sometimes very complicated concepts we cover in class.

Grading Commenting, Feedback or homework:

Homework grades and feedback should promote and reflect student learning.

Research indicates teachers should provide timely, relevant feedback to increase student achievement.

Parental Involvement:

Parents will be familiar with the philosophy of the homework guidelines and honor the importance of homework.

In order to promote student success, parents should honor the importance of homework by providing a place, time, resources, and supervision. Student's academic progress can be monitored regularly in Synergy.

NOTE: Students will have ONE WEEK from the day they are absent to make up work, including labs and tests. The make-up test may be a different format than the original test, however, it will require the understanding of the exact same material that was on the test on the originally scheduled date. This is to discourage habitual absences on dates of tests/quizzes/labs. MAKE UPS WILL ONLY BE GIVEN DURING OFFICE HOURS (BEFORE SCHOOL 7:15-8am any day OR 2:35-3:00 pm on Mondays, Wednesdays, & Fridays ONLY)

NOTE: I reserve the right, per the handbook, to lower your grade ONE FULL GRADE if you exceed EIGHT absences from my class. It is imperative to attend class so that you are able to understand concepts, participate in labs/dissections, and work on group projects/assignments. If there is an issue that arises during the semester/year that may inhibit your regular attendance to class, you need to discuss this with me as soon as possible so that arrangements can be made to ensure successful completion of the class.

NOTE: This IS a BYOD classroom, however every day you enter this classroom, you will turn off your phone and place it in the pocket number in the phone carrier that corresponds with a number you have been given at the beginning of the school year. You will ONLY have access to the phone when appropriate use in class is warranted. Otherwise, if a phone is out, it WILL be confiscated, and your first violation WILL result in 2 hours of detention. For EACH violation after that, administration will deal with the discipline per outline in the student handbook. We will be discussing what the "appropriate" times for phone use will be at the beginning of the semester.

NOTE: NO FOOD OR DRINK (OTHER THAN WATER) WILL BE ALLOWED IN CLASS.

Violations of this policy will be dealt with by me and/or administration in the form of detention hours.