

# Anatomy & Physiology Syllabus

## 2021-2022

*Instructor: Mrs. McClure*



### **About the class:**

Anatomy and Physiology will investigate the structures and functions of the human body. We will study these through classroom discussions, textbook and internet use, projects, and laboratory activities. We will also explore possible careers in the health sciences. Your grade will be based on daily work, labs, case studies, quizzes, and tests.

### **A & P Units:**

#### **Unit 1 - Cells and Tissue**

Chapter 1: The Human Body Orientation  
Chapter 3: Cells the Living  
Chapter 4: Tissue the Living Fabric  
Chapter 5: The Integumentary System

#### **Unit 3 - Nervous System and Reflex Activity**

Chapters 11&12: The Central Nervous System  
Chapter 13: The Peripheral Nervous System  
Chapter 14: The autonomic nervous system  
Chapter 15: The special senses

#### **Unit 5 - Energy**

Chapter 22 - The Respiratory System  
Chapter 23 - The Digestive System  
Chapter 25 The Urinary System

#### **Unit 7 - Cat Dissection**

#### **Unit 2 - Structure**

Chapter 6 Bones and Skeletal Tissues  
Chapter 7 The Skeleton  
Chapter 8 Joints  
Chapter 9&10 Muscle Tissue and the Muscular System

#### **Unit 4 - Transport**

Chapter 17 - Blood  
Chapter 18 - The Heart  
Chapter 19 - Blood Vessels  
Chapter 20 - Lymphatic System

#### **Unit 6 - Reproduction**

Chapter 27 - The Reproductive System  
Chapter 28 - Pregnancy and Human Development  
Chapter 29 - Heredity

### **Tips for Success:**

Anatomy and Physiology is a course that requires memorization of body parts and functions. Therefore, students must be willing to put forth time and effort on a regular basis in order to be successful. Classroom activities and resources will be geared to help facilitate this type of learning. Taking a few minutes each evening to practice and quiz yourself will really help.

### **Classroom atmosphere:**

We will make the most of our class minutes each day. There will be notes to take, presentations, videos, lab work, case studies, computer simulations, group work, and a research paper. In order to cover the entire human body, we have to move quickly. DO NOT GET BEHIND. It is recommended that you read chapters on your own - you should go over class material each night to help ensure you understand the material.

### **Presentations and lab work:**

The main presentation will be done over the research paper. The lab work will include our dissection of the cats along with the various beef and sheep organs (cow eyeball, sheep brain, sheep kidney, sheep heart), along with some microscope work.

### **Curriculum:**

Your primary grade will be the exams at the end of each unit. Each unit exam is closed notes. The exams are made up of multiple-choice, vocab, T/F, short answers, and critical thinking questions. Other grades will include quizzes, sketches, lab work, and presentations.

### **Extra Credit:**

There will be bonus questions on exams (unless absent). In addition, you may bring in a news article to share with the class to help keep us current. Each article is worth 5 points. A max of 50 points can be earned per semester. One article is presented each time. A printed article and a 2 paragraph written summary of the article is required upon completion of the presentation. Articles will only be done on the first day of the week. The articles need to relate to physiology.

### **How to pass this class:**

If you are willing to work, both in class and out, to prepare for class, you will do fine. You decide how much effort you put into the material. I determine when you take quizzes & exams - you choose how prepared you are for each. It is vital that you learn each day. Doing so will ensure you are partially prepared at the start of each new class.

1.

**Quarantined students** are expected to attend **daily** live class sessions during your class period. Please use the nickname mcclure when entering the google meet. Material will not be presented twice, nor will emails be answered about what was covered in class.

**Class Materials:**

1. Keep everything organized and in one place... like a folder or binder
2. iPad
3. Something to write with
4. Colored pencils are recommended
5. Textbook and Digital Textbook - **Modified Mastering A&P for Human Anatomy & Physiology 11th Edition** Author(s): Marieb, Elaine | Hoehn, Katja

**Sketch Rules:**

1. ALL writing in the same direction
2. PRINT title across the top or bottom of the page
3. Label lines straight
4. Print Labels
5. Overall neatness
6. Draw in PENCIL only

Tip: when drawing, just put numbers on the lines and then provide a label list in another area on the page.

**Fall Project (This project is your First-Semester Final):**

Each student must select a topic that deals with Genetic Disorders or a Physiological disease; then investigate it. Try to select a topic that is being researched intently at this time by scientists and/or doctors. Try to make a point to compare different research or possible cures/treatments. The topic should be something that is of interest to you since you will have to refer to this in the 1st person for your presentation. The idea of your investigation is to share as much current information about the research being done on your topic as possible with the class. The material discovered by each student will be presented with a presentation and a written report. (If distance learning occurs, presentations will be in groups of 4 with the teacher via a Googlemeet session. You will be required to share your screen).

**Spring Career Activity**

2. Select a career related to each of the units covered in class. One person per career
3. Complete the Fact Sheet (Use provided links or other reliable websites).
4. Prepare a visual aid for this career. Follow the given requirements.
5. Share a short presentation with the class on the required dates. Follow the given requirements.