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**Mr. Champ**

**Honors Anatomy and Physiology**

**Room** #**214**

**fchamp@efsd.net**

**(412) 896-2349 Ext. 7914**

**Expectations:**

* You should be **on time** to class **everyday**!!!!!!!!!!!!!!!!
* You should have a pencil **(#2)**, pen, and your notebook (Large 3-ring Binder) in class everyday.
* Your textbook, and photographic atlas should go home and should stay at home. I have a set of textbooks and photographic atlases in class for you. They will not leave the classroom unless you sign them out for the day.
* Once the bell rings you should be in your seat ready to start class.
* You should **not be talking** **while I am talking**, **or another student is talking**; it is very disrespectful!!!!!!!!!!!!
* You should always do your **own** work.
* You should not be afraid to ask questions in class.
* You should treat your classmates with respect.
* **Do not touch** any of the animals in the classroom, unless you get permission first!!!!!!!!
* **Do not lean back on the chairs!!!!!!!!**
* **Keep your cell phones in your pocket!!!!! I do not want to see them!!!!!**
* **Use your iPad and phones for educational purposes only!!!!!!**

**Course Description**

**The course is designed to provide essential content to the student who is considering a career in the allied health field. Nonhuman (rats, pigs, cats) anatomy is thoroughly investigated through extensive laboratory work involving dissection. Comparisons and contrasts are then made to human anatomy. Fundamental biochemistry, extensive nomenclature, and principles of embryology are also included.**

**Supplies You Will Need For Dissections**

* Gloves (**Latex Free Only**)
* Soap/Hand Sanitizer/Hand Lotion
* MASK (Optional)

**Grading/Grading Scale:**

Your grades for this course will be composed of the following: tests, quizzes, homework, classwork, labs (dissections), Practical Exams, Google Slides/ Keynote and iMovie presentations and oral presentations.

 A 100—90

 B 89—80

 C 79—70

 D 69—60

F 59

**\*\*\*Projects, presentations and all assignments are due on the day assigned! If it is turned in the next day you will only receive half credit. After that it becomes a zero!!**

**Make up Work**

\*\*\*\*\*\*\* You only have the amount of days that you were absent to make up any graded work.

**Cheating:**

 Cheating of any sort will not be tolerated. Anyone caught cheating on **any** test, quiz, or assignment will receive a **zero**.

**Tutoring:**

 I am available for tutoring during **2nd** period **(most days)** and **9th period (M, T, W, and F)** (my plan) and I will be available before and after school to help you. If these times do not fit into your schedule see me and we can work out a time that is convenient.

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**BRAVE ANATOMY CLASSROOM**

**BE SAFE—LISTEN AND MAINTAIN PERSONAL SPACE**

**RESPECT OTHERS—BE ON TIME, BE POLITE AND USE APPROPRIATE**

 **LANGUAGE AND TONE**

**ACCOUNTABLE—BE PREPARED, BE HONEST, DO YOUR OWN WORK, USE**

 **ELECTRONIC DEVICES ONLY WHEN PERMITTED**

**VICTORIOUS—DO YOUR BEST WORK AND CELEBRATE ACADEMIC**

 **SUCCESS**

**ENTHUSIASTIC—HAVE A POSITIVE ATTITUDE AND TAKE OWNERSHIP OF**

 **LEARNING**

**ACADEMIC INTEGRITY SCIENCE**

o**Try! Listen! Think!**

o**Use your iPad and phone for educational purposes**

o**Be prepared for your class**

o**Follow directions**

o**Be safe in the lab**

o**Do not cheat**

o**Do not get off task or give up**

o**Do not damage school property**

**Anatomy and Physiology Syllabus**

**(Tentative Schedule)**

**1st 9 weeks—Rat Dissection**

**2nd 9 weeks—Fetal Pig Dissection**

**3rd and 4th 9 weeks—Cat Dissection**

**I. The Human Body: An Orientation—**an overview of Anatomy and

Physiology, The Levels of Structural Organization, Maintaining Life, Homeostasis, The Language of Anatomy **Chapter 1**

**II. The Skeleton** The Skull, The Vertebral Column, The Bony Thorax, The Pectoral Girdle, The Upper Limb, The Pelvic Girdle, The Lower Limb **Chapter 7**

**III. Joints** Classification of Joints, Fibrous Joints, Cartilaginous Joints, Synovial Joints, Homeostatic Imbalances of Joints **Chapter 8**

**IV. Muscles and Muscle Tissue** Overview of Muscle Tissue, Skeletal Muscle, Smooth Muscle **Chapter 9**

**V. The Muscular System** Interactions of Skeletal Muscles in the Body, Naming Skeletal Muscles etc. **Chapter 10**

**VI. Fundamentals of the Nervous System and Nervous Tissue** Organization of the Nervous System, Histology of Nervous Tissue, Neurophysiology, Basic Concepts of Neural Integration **Chapter 11**

**VII. The Endocrine System** Hormones, Major Endocrine Glands, Other Hormone Producing Structures **Chapter 16**

**VIII. The Cardiovascular System: The Heart—**Heart Anatomy, Properties of Cardiac Muscle Fibers, Heart Physiology **Chapter 18**

**IX. The Cardiovascular System: Blood Vessels**—Overview of Blood Vessel Structure and Function, Physiology of Circulation, Circulatory Pathways **Chapter 19**

**X. The Respiratory System** Functional Anatomy of the Respiratory System, Mechanics of Breathing, Basic Properties of Gases, Gas Exchange Between the Blood, Lungs, and Tissues **Chapter 22**

**XI. The Digestive System** Overview of the Digestive System, Functional Anatomy of the Digestive System, Physiology of Chemical Digestion and Absorption **Chapter 23**

**XII. The Urinary System** Kidney Anatomy, Kidney Physiology **Chapter 25**

**XIII. The Reproductive System**  Anatomy of the Male Reproductive System, Physiology of the Male Reproductive System, Anatomy of the Female Reproductive System, Physiology of the Female Reproductive System **Chapter 27**

**I will use Canvas and *Remind* to send out important information about what we will be doing in class each week. I will also be updating my Playlist in Canvas with what we are doing in class each day.**

**“If you are satisfied with being good you will never be great.”**

 ***-Jim Collins-***

**“If you'll not settle for anything less than your best, you will be amazed at what you can accomplish in your lives.”**
***-Vince Lombardi-***

**Apps. you should have on your iPad:**

**1.) Canvas**

**2.) Socrative**

**3.) Essential Skeleton 4**

**4.) Visual Anatomy Lite**

**5.) PowerSchool**

**6.) Human Anatomy Atlas**

**7.) Zoom**

**8.) Remind**

**We will be adding more apps. throughout the year.**

**This year take the approach that the glass is half full, not half empty. If you give this class your best effort, it will be a very rewarding one that can help you in the future.**

**Good luck in the 2022—2023 School Year!! Graduation Day will be here before you know it!!**