

Anatomy and Physiology Syllabus 2010-2011 Mrs. Renner

Contact Information:

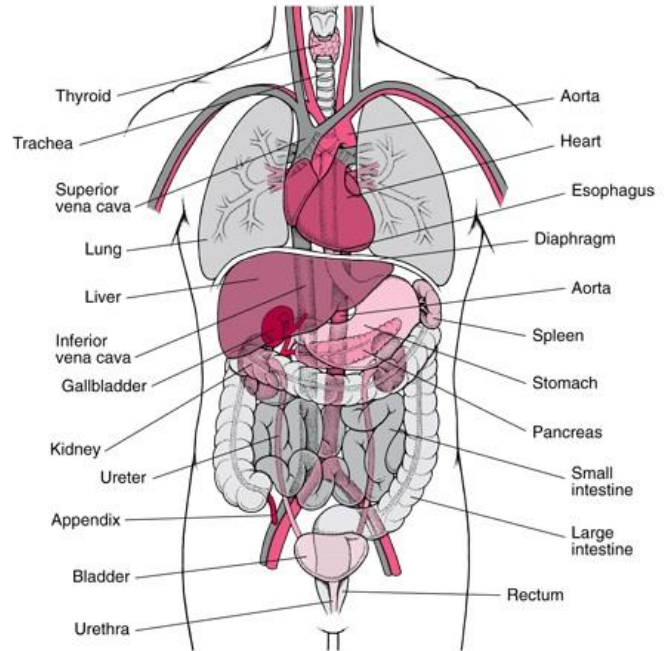
Email: trenner@immaculateheart.org

Room: SB-5

Office Hours: Tuesday and Thursday mornings before school

Course Description

Welcome to Anatomy and Physiology! This is an exciting course that you will find both challenging and interesting... after all, it is all about you! The study of Anatomy and Physiology focuses on the structures of the human body and how those structures work together. During the course of this year we will study all the organs and organ systems of the body in great detail. We will be analyzing cellular structure and function, as well as how the cells work together to coordinate organ function. Additionally, we will explore how the organs work together to maintain homeostasis and stability within the human body. We are very complex organisms. In this course you will analyze those complexities, and in doing so, prepare for advanced collegiate science courses. While this course may be challenging, together we will work hard to gain knowledge and skills in the fascinating field of anatomy.



A & P Topics :

First Semester:

Unit One: Organization

- Intro to human A & P
- Biochemistry
- Cells and Tissues

Unit two: Support and Movement

- Integumentary System
- Skeletal System
- Muscular System

Unit Three: Integration and Coordination

- Nervous System
- Senses
- Endocrine System

Second Semester:

Unit Four: Transport

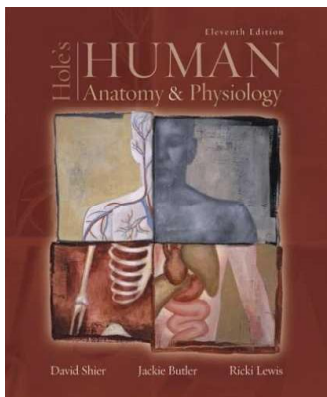
- Blood
- Cardiovascular system
- Lymphatic System/immunity

Unit five: Absorption and excretion

- Digestive system
- Respiratory System
- Urinary system

Unit Six: The Human Life Cycle

- Reproductive system
- Pregnancy, growth and development



Required Materials

Composition
Notebook
Glue Sticks
Textbook: Hole's
Human Anatomy and
Physiology

Colored Pencils
Colored Pens
Highlighters
3 X 5 index cards (cut in half)
2 inch Flashcard ring
Single hole punch

Class Requirements

Interactive Notebook

The most important aspect of this class is maintaining an absolutely beautiful, detailed and high quality interactive science notebook. This notebook is to be kept in a composition book (NO OTHER TYPE OF NOTEBOOK IS ACCEPTABLE). You will keep a table of contents and each page will be formatted in an input/output format which corresponds with the functioning of the left and right hemispheres of the brain....much more on this as you learn about and use your notebook. Notebooks can be collected at anytime and you must keep up with your notebook on a daily basis.

Homework

Most (but not all) homework will be done in the interactive notebook. You will be assigned homework every night (with a few excused nights here and there throughout the academic year). During the "Warm Up" assignment I will check your homework and you will earn stamps in the table of contents of your notebook. Please be aware that I will randomly check homework...so be ready every day!!!

Labs

This is a laboratory science and you will participate in many physiology labs throughout the school year. Some labs will be done in your interactive notebook and others will be done on lab sheets. Lab safety rules MUST be followed at all times...a safety contract will be reviewed and signed prior to participation in any labs. Your parents will be required to sign the contract as well.

Dissection

Dissection is an essential part of the learning process in an anatomy class. The experience and skill of successfully dissecting an organism will help to prepare you for advanced biology classes in college, med school, etc. BUT dissection does require the death of animals ☹. In order to choose the most humane dissection possible, the cat is the best choice. This dissection will be the culminating activity of the course and will allow you to apply all the knowledge you have gained throughout the year. Anatomically,, the cat serves as an excellent example of human organ systems. In addition, the cat is the best choice because euthanized cats from animal shelters are used and the animals are not bred for dissection purposes...these animals would unfortunately have to be euthanized whether we dissected them or not. We are merely using their remains for education. I do not take the death of animals for science lightly and know that the ultimate way to show respect for our feline friends will be to learn EVERY structure and to study them thoroughly. I am a cat lover and have two cats of my own at home. However, the knowledge and skill you will gain during this process will be essential for your development as a serious student of biological sciences.

Exams and quizzes

Exams will be given at the end of each unit. Also, weekly quizzes will be given every Tuesday on the material learned the previous week. There are NO MAKE UPS on quizzes...however I will drop your lowest quiz grade, It is your responsibility to be present the day of an exam or quiz. A comprehensive final exam will be given at the end of each semester.

Flashcard Ring

Anatomy requires you to learn hundreds of words throughout the year. This vocabulary will seem like a foreign language at first...but through hard work and practice you will become fluent in this scientific dialect. In order to help you with this task, you will be required to keep a flashcard ring with all the vocabulary words and definitions for the entire semester. You are to use 3 X 5 index cards cut in half and hole punched in the left hand corner. Each card must also contain your initials written neatly in the right hand corner. On the front of the card you will write the assigned word and on the back of the card you write the definition.

Projects/Reports/Presentations

There will be projects assigned throughout each semester. Specific directions, expectations and grading rubrics will be provided as each project is assigned.

Grading

You will be graded on weighted system, as follows:

Interactive Notebook: 20%

Exams: 40%

Projects/reports: 10%

Guided practice*: 10%

Final Exam: 20%

*Guided practice includes assignments used to help you understand the concepts with assistance (guidance) from me and/or classmates. Assignments in this category include class work, some homework, flash cards, class activities, class participation and group/partner work.

Scale: Grades will be calculated on the scale that is set forth in the student handbook

Classroom Procedures:

1. Be in your seat **silently** working on the Warm Up when class begins.
2. Raise your hand! And never speak while others are speaking!
3. After an absence pick up hand outs/glue-ins from the bin in the back of the classroom.
4. Take care of classroom materials and keep desk boxes immaculate!!!
5. At the end of class: You will be dismissed by me (clean table / sit quietly)

Student Responsibilities

Classroom Rules

1. Be attentive and alert in class.
2. Be respectful to others.
3. Speak in academic/professional language
4. Maintain a detailed, reflective and creative interactive notebook.
5. Complete your assignments on time.
6. Study for exams and quizzes
7. Be helpful to your classmates.
8. You may not eat, chew gum, or drink anything other than water in class. You may not have food in class.
9. You are allowed three bathroom passes per semester. BATHROOM PASSES ARE NON-TRANSFERABLE.
10. Follow all school rules.

Absences & Make-up work

- When you are absent, IT IS YOUR RESPONSIBILITY to get the notes from a classmate in a timely fashion and for staying on top of the material. Your interactive notebook must be updated (both input and output) no later than ONE DAY after you return from an absence. In the event of an extended absence (more than three days) you may see me upon your return to discuss extending this deadline.
- Make-up tests (in the event you are absent on the day of a test) are given on Tuesdays before school and Thursdays at lunch. You will need to make arrangements to take the test at one of these times, and let me know in advance when you will be doing the make-up.
- Quizzes cannot be made up. However I will drop one quiz grade at the end of the semester.
- If you are absent on the day I check notecards, the notecards are due on the day you get back. It is your responsibility to show them to me that day, or you will receive a zero on the assignment.

School Policies

All school policies will be strictly enforced...please refer to your student handbook to review the policies. Pay close attention to the honesty/plagiarism policy: Absolutely NO copying, cheating or dishonest acts will be tolerated! In addition, there is ZERO TOLERANCE for cell phone/electronic device usage in the classroom.

NOTE: I reserve the right to make any changes to this syllabus at any time ☺

Dear Parent,

It is my pleasure to be your daughter's science instructor this academic year. I am a dedicated and enthusiastic educator who will support her academic development. Please feel free to contact me anytime to discuss her progress. Also, please utilize the online grade check system to see how she is doing periodically. Also, please check my webpage to see your daughter's assignments. Thank you in advance for your support, as together we prepare your daughter for success!

Sincerely,

Tara Renner, M.Ed.
trenner@immaculateheart.org

PARENT/STUDENT ACKNOWLEDGEMENT:

We, _____ (print student name) and _____ (print parent/guardian name) have read and acknowledge the rules and guidelines set forth in the Anatomy & Physiology syllabus.

Student signature: _____ Date: _____
Parent/Guardian signature: _____ Date: _____

Parent Contact information:

Daytime Contact Number(s): _____

Evening Contact Number(s): _____

Email Address(s): _____

When is the best time to contact you in regards to your daughter's progress?

Comments or questions? _____
