

ANATOMY AND PHYSIOLOGY 12

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Textbook: Inquiry into Life 11th Ed
Science Room



WELCOME TO ANATOMY AND PHYSIOLOGY 12!

You are about to embark on a journey which will begin with the tiny biochemical molecules that make up your body and end with a tour of the human body; organs, functions and how it all works together to make you the fun and exciting individual you are.

BIG IDEAS:

- ☆ Homeostasis is maintained through physiological processes
- ☆ Gene expression, through protein synthesis, is an interaction between genes and the environment
- ☆ Organ systems have complex interrelationships to maintain homeostasis

The topics include:

INTRODUCTION

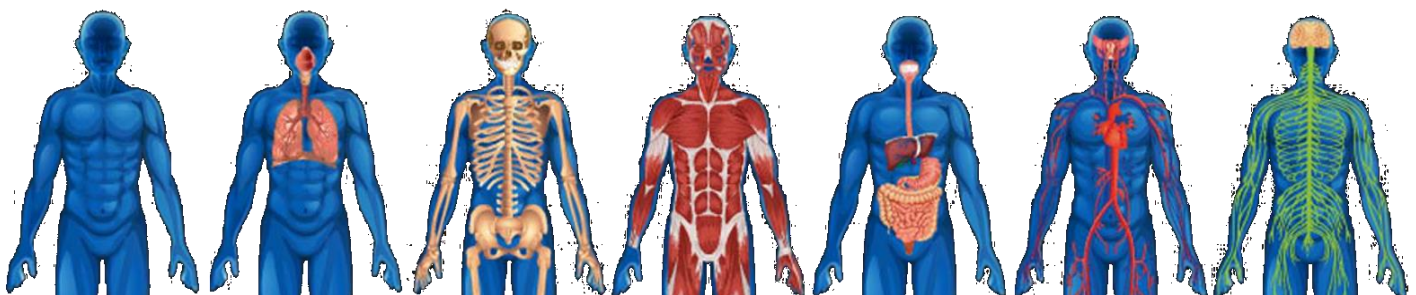
- ☆ Scientific Methods & Principles
- ☆ Homeostasis
- ☆ Biochemistry

CELL BIOLOGY

- ☆ Cell Compounds & Biological Molecules
- ☆ Cell Structure
- ☆ DNA Replication
- ☆ Protein Synthesis
- ☆ Transport Across Cell Membrane
- ☆ Enzymes

HUMAN BIOLOGY

- ☆ Digestive System
- ☆ Circulatory System
- ☆ Respiratory System
- ☆ Nervous System
- ☆ Excretory System
- ☆ Reproductive System



EVALUATION

ASSIGNMENTS & LABS 10%

Assignments and laboratory activities are a component of this course. Assignments will usually be collected the day of the unit test; however, others may be due at the end of the class period. Through lab activities you will develop an understanding of the materials in this course. Unexcused absences on the day of a lab will result in a zero for the lab. For excused absences, missed labs will be dealt with depending on the lab.

LEARNING OUTCOMES ASSIGNMENT 20%

A semester long assignment exploring the learning outcomes as outlined by the BC Ministry of Education. This will be collected the day of the unit test and evaluated.

QUIZZES 15%

Expect quizzes on a frequent basis with or without notice. Unexcused absences and lates will result in a zero for quizzes. If you are absent on the day of a quiz, you must write the quiz within two days upon your return.

TESTS 55%

Tests will be written at the conclusion of each unit. Test dates will be provided well in advance, and you should spend a significant amount of time studying and preparing. If you are absent on the day of the test, you should write the test within two days upon your return. Rewriting a unit test is a privilege, not a right. If you would like to rewrite a unit test, you must demonstrate that you have completed the assignments and completed the rewrite assignment.

COURSE WORK 70%

INQUIRY PROJECT 10%

FINAL EXAM 20%

Evaluation of student’s progress will be ongoing throughout the course and will be done in a variety of methods. Assessment will be informative to improve student’s progress and formative to develop the student’s final grade. Unit tests will be used as cut off points for turning in unit work. Rubrics will be used when appropriate.

REQUIRED MATERIALS

- ☆ You will need a three ring binder for this course. I recommend that you keep your notebook organized including a topic page and/or dividers for each major unit.
- ☆ **KEEPING ORGANIZED IS A HUGE STEP TOWARDS SUCCESS IN THIS COURSE!**
- ☆ Pens/pencils/Calculator/Ruler are required each class.

THE PATH TO SUCCESS

- **BE PREPARED AND ON TIME.** The successful student attends class regularly and brings all necessary materials **EVERYDAY**
- **BE ORGANIZED.** Keep track of your classroom/homework assignments, and important dates.
- **ASK QUESTIONS!** Get help right away. Small problems don't go away, they get bigger!
- **USE CLASS TIME WISELY.** If you focus, you will be able to get most of your homework done during class, while help is available!
- **DO HOMEWORK!** It is essential that you keep up to date as each new concept builds on the previous one, and a new lesson will be taught every day.
- **TAKE PERSONAL RESPONSIBILITY FOR YOUR LEARNING!** If you have a problem with the course, come and talk to me before school, during lunch or after school.

CLASSROOM EXPECTATIONS

- No pop or food! Only closed water bottles or closed coffee mugs are allowed.
- Music players are permitted only when doing assignments (at a volume that only you can hear). During teaching or class discussions, please have music players off and out of sight. If this becomes a problem, music players may be banned from the classroom.
- Cell phones can only be used for emergencies and should also be out of sight.
- Behave respectfully and courteously towards other students and your teacher at all times. It is important to build a positive learning environment where **EVERYBODY** feels comfortable.

With a lot of effort and enthusiasm, we should have a fun semester. Science demands thought and interest, you will get out of science what you put into it. Feel free at any time, in and out of class to ask lots of questions, because that's what science is all about, asking and answering questions. Please see me at any time for extra help. I want your Anatomy and Physiology 12 experience to be a successful one!



Welcome to Ms. Iselmoe's Classroom



Educational Philosophy

In order to be successful in this course, students are expected to be active participants. It is my goal to provide a positive and engaging classroom where all students have the opportunity to learn, succeed, and share their thoughts and opinions verbally without fear of embarrassment or ridicule.

Expectations

1. Be respectful.

Treat everyone with proper consideration, regardless of whether he/she is in the classroom at the time. Use respectful language, writing as well as in discussions. Show respect for your environment by keeping the classroom clean and neat.

2. Be responsible.

Arrive at class on time and with all necessary materials. Complete assignments on time, ask questions when necessary, and stay aware of deadlines. Be prepared for the start of class each day. Do what is right, regardless of what everyone else in class is doing.

3. Be appropriate.

Conduct yourself as a mature, well-mannered young adult. Think before speaking, and make sure all contributions to the class dialogue should be meaningful and pertinent. Take care of personal business when the time is appropriate. Use your privileges wisely.

4. Be involved.

Participate to the fullest extent that you can. Stay awake. Take part in discussions. Ask questions. Answer questions. Stay on task. Take notes. Keep your head up. Do your homework. Use class time efficiently. Listen. Watch. Participate.

5. Be honest.

Do your own work. Do not cheat, and do not plagiarize. Do not attempt to sneak around the rules. Avoid inventing excuses to cover up for your mistakes. Accept consequences for your mistakes. And learn from them.

Classroom Management

In order for each student to feel safe and comfortable in my classroom, a positive and respectful attitude is expected of all students. This includes respecting others' thoughts, work, feelings, and individuality. If a student does not demonstrate positive behavior, I will visit with him/her and we will try to resolve the issue together. If this proves unsuccessful, students will call their parent at home or work and explain their behavior. The third offense will be a disciplinary report to the principal. Any negative behavior that continues will result in a conference with the student, parent(s)/guardian(s), the teacher and the principal.