

Anatomy & Physiology

Grades:	7th – 12th
Day of Week:	Wednesday
Time of Class:	9:00 am – 10:30 am ET
Length of Class:	20-weeks
Semester:	Fall & Winter
Tuition:	\$400.00
High School Credit:	1 Science or Elective

Class Dates:

Week 1: Week of September 11

Week 2: Week of September 18

No classes from September 25 – October 6, 2023 – Jewish Holidays

Week 3: Week of October 9

Week 4: Week of October 16

Week 5: Week of October 23

Week 6: Week of October 30

Week 7: Week of November 6

Week 8: Week of November 13

No classes from November 20 – 24 – Thanksgiving Holidays

Week 9: Week of November 27

Week 10: Week of December 4

Make-Up Days: Week of December 11

Week 11: Week of January 8

Week 12: Week of January 15

Week 13: Week of January 22

Week 14: Week of January 29

Week 15: Week of February 5

Week 16: Week of February 12

Week 17: Week of February 19

Week 18: Week of February 26

Week 19: Week of March 4

Week 20: Week of March 11

Make-Up Days: Week of March 18

Instructor's Name:	Jennifer Collins
Instructor's Email:	<u>sciencewithcollins@gmail.com</u>

Description of Class:

Anatomy and Physiology is a course that will enable students to develop an understanding of the relationships between the structures and functions of the human body. Students will also learn the mechanisms for maintaining homeostasis within the human body. This course will involve laboratory activities, projects, dissections, textbook material, models, diagrams, journal writings, and clinical studies.

Class Approach:

Lectures and activities will emphasize topics related to human anatomy and physiology. Students will read journals/medical articles, participate in group discussion questions, complete labs/lab reports, and complete diagrams of body systems.

Goals:

Upon successful completion of Anatomy and Physiology students will be able to-

1. Use appropriate terminology to discuss anatomy and physiology.
2. Identify anatomical structures and describe the complex interrelationships between structure and function.
3. Explain how body systems work together to maintain homeostasis.
4. Propose evidence-based hypotheses to explain physiological responses or the functions of anatomical structures.

Textbook:

<https://www.ck12.org/book/ck-12-biology-advanced-concepts/section/17.0/>

<https://openstax.org/details/books/anatomy-and-physiology?Book%20details>

Additional Supplies/Resources Needed:

Color pencils	Tape
Pen (Black or Blue ink only)	Notecards
1 Composition Book	Scissors

*Additional lab supply list will be provided upon registration

Weekly Homework:

Students can expect at least 1 ½ hours of homework per week, including readings, web quests, labs, and questions.

Homework Policy:

All homework is expected to be completed by the due date. Quizzes and graded online assignments are developed using homework questions.

Evaluation:

Daily assignments, labs, projects, and assessments will be assigned.

Daily/Labs 40%

Test/Projects 60%

Anticipated Weekly Course Schedule:

Week	Topic
Week 1	Introduction to Anatomy
Week 2	Chemical levels of organization
Week 3	Structure and function
Week 4	Tissue level of organization
Week 5	Integumentary system
Week 6	Skeletal system
Week 7	Muscular system
Week 8	Nervous system
Week 9	Senses
Week 10	Endocrine system

Week	Topic
Week 11	Cardiovascular system: Blood
Week 12	Cardiovascular system: Heart
Week 13	Lymphoid system/ Immunity/Diseases
Week 14	Lymphoid system/ Immunity/Diseases
Week 15	Respiratory system
Week 16	Digestive system
Week 17	Urinary system
Week 18	Reproductive system
Week 19	Review
Week 20	Final Test