



Class Title: Orange Human Anatomy: Physiology

Teacher Name: Marie Jones

Class Day: Monday

Class Size: 10

Class Cost: \$45

Class Fee: \$96

Ages or color group served: Orange

What level is this class: Level 2

Prerequisites:

- Knowledge of the 11 body systems (functions and major organs)
- Understanding of anatomical terminology (e.g., superior, inferior, anterior, posterior)
 - Familiarity with cells, tissues, and body organization basics
- Strong foundation in middle school life science/biology concepts

All Level 2 Requirements:

Reads longer sentences and simple paragraphs

Can sound out unfamiliar words with growing confidence

Begins to use context to aid comprehension

Reads with some fluency but may still be slow or choppy

Kids need to know how to write

Homework each week, weekly quizzes, plus some research at home

Graduation Requirements: HCU attendance policy, completed homework assignments, and C grade average or above.

Homework Requirements: 1-1.5 hour/weekly

Class Description:

Human Anatomy II is designed as a continuation of Human Anatomy I with a focus on physiology—the study of how the body systems work and interact. This course bridges structure and function, guiding students from identifying anatomical parts to understanding the processes that keep the body alive. Through engaging lectures, video resources, interactive notes, and hands-on activities, students will build strong foundations in scientific literacy, critical thinking, and health awareness.

Students will also learn effective note-taking skills, diagram labeling, and science vocabulary mastery while being encouraged to connect physiology to real-life wellness.

Course Objectives

By the end of this course, students will be able to:

1. Define physiology and explain how it builds upon anatomy.
2. Describe the major processes of each body system and how they maintain homeostasis.

3. Analyze how body systems work together in coordination (e.g., muscular + nervous system).
4. Strengthen science vocabulary, study habits, and critical thinking through structured assignments and quizzes.
5. Develop a holistic appreciation of the human body as designed and interconnected.

Week 1:

Introduction to Physiology & Homeostasis

Week 2:

Muscular System – Function and Energy Use

Week 3:

Nervous System – Communication Pathways

Week 4:

Circulatory System – Blood Flow & Heart Function

Week 5:

Respiratory System – Oxygen Exchange

Week 6:

Midterm Exam + Case Studies in System Interactions

Week 7:

Digestive System – Nutrient Absorption & Enzymes

Week 8:

Endocrine System – Hormones and Regulation

Week 9:

Urinary System – Waste Removal & Balance

Week 10:

Immune System – Defense and Healing

Week 11:

REVIEW WEEK

Week 12:

Final Exam + Student Presentations on System Integration