

**Course Title:** Anatomy & Physiology II

**Board Approval Date:** March 17, 2020

**Credit / Hours:** 1

**Course Description:**

**This course is an intensive study of the form and function of the human body from cellular through systemic organization and will go beyond what was covered in Anatomy & Physiology II. Anatomy & Physiology I will cover the blood, the cardiovascular system, the lymphatic system, the respiratory system, the digestive system, the urinary system, the reproductive system, and dissection, as well as virtual activities to enhance the curriculum. Students will be assessed on each unit as well as a common final exam. Students who take this course should have a strong interest in extending their knowledge further than Anatomy & Physiology I.**

**Learning Activities / Modes of Assessment:**

Teacher Observation	Think-Pair-Share
Online Learning Resources	Schoology
Bell Ringers	(Discussion, assignments, etc)
Exit Tickets	Stations
Projects	Videos
Lab and Lab Reports	Flip Grid
Small Group	Real world applications
Whole Group	iPads and Apps
Direct Instruction	Quizzes
Partner Work	Tests
	Exams

**Instructional Resources:**

Textbooks

Websites

Lab materials/kits

iPad apps

State Standards

COSI

Dissection materials

Anatomy models

Schoology

Case studies

Colored pencils

Anatomy coloring book

Curriculum: Science

Course: Anatomy & Physiology II

Know:

Understand:

Do:

Know:	Understand:	Do:
<p><b>Biology Keystone Standards</b> BIO.A.1.2 Describe relationships between structure and function at biological levels of organization.</p>	<p>Students will demonstrate that structure determines function at all levels.</p>	<p>BIO.A.1.2.2 Describe and interpret relationships between structure and function at various levels of biological organization (i.e., organelles, cells, tissues, organs, organ systems, and multicellular organisms).</p>
<p>BIO.A.2.2 Describe and interpret relationships between structure and function at various levels of biochemical organization (i.e., atoms, molecules, and macromolecules).</p>	<p>Students will demonstrate that structure determines function at all levels.</p>	<p>Explain and analyze the relationship between structure and function at the molecular, cellular and organ-system level.</p>
<p>BIO.A.4.2 Explain mechanisms that permit organisms to maintain biological balance between their internal and external environments.</p>	<p>Students will demonstrate that structure determines function at all levels.</p>	<p>BIO. A.4.2.1 Explain how organisms maintain homeostasis (e.g., thermoregulation, water regulation, oxygen regulation, blood glucose regulation)</p>
<p>BIO.A.2.3 . Explain how enzymes regulate biochemical reactions within a cell.</p>	<p>Students will understand enzymes actions in digestion.</p>	<p>BIO.A.2.3.1 Describe the role of an enzyme as a catalyst in regulating a specific biochemical reaction.</p>

<p>BIO.B.2.1 Compare Mendelian and non-Mendelian patterns of inheritance.</p> <p><b>National Health Science Standards</b>  1.1 Human Anatomy and Physiology</p> <p>1.2 Diseases and Disorders</p>	<p>Students will understand how bloodtype is inherited.</p> <p>Understand human anatomy, physiology, and common diseases and disorders.</p> <p>Understand human anatomy, physiology, and common diseases and disorders.</p>	<p>BIO.B.2.1.1.1 Describe and/or predict observed patterns of inheritance (i.e. co-dominance).</p> <p>1.11 Identify basic levels of organization of the human body.</p> <p>1.12 Identify body planes, directional terms, cavities, and quadrants.</p> <p>1.13 Analyze basic structures and functions of human body systems (skeletal, muscular, integumentary, nervous, special senses, endocrine).</p> <p>1.21 Describe common diseases and disorders of each body system</p>
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## **Anatomy & Physiology II Pacing Guide**

<b>Course Unit (Topic)</b>	<b>Length of Instruction (Class Periods)</b>
Medical terminology	4 days
Blood	8 days
Cardiovascular	12 days
Lymphatic	12 days
Respiratory	9 days
Digestive	14 days
Urinary	10 days
Reproductive	9 days
Cat dissection	8 days
Midterm/Final exam	4 days