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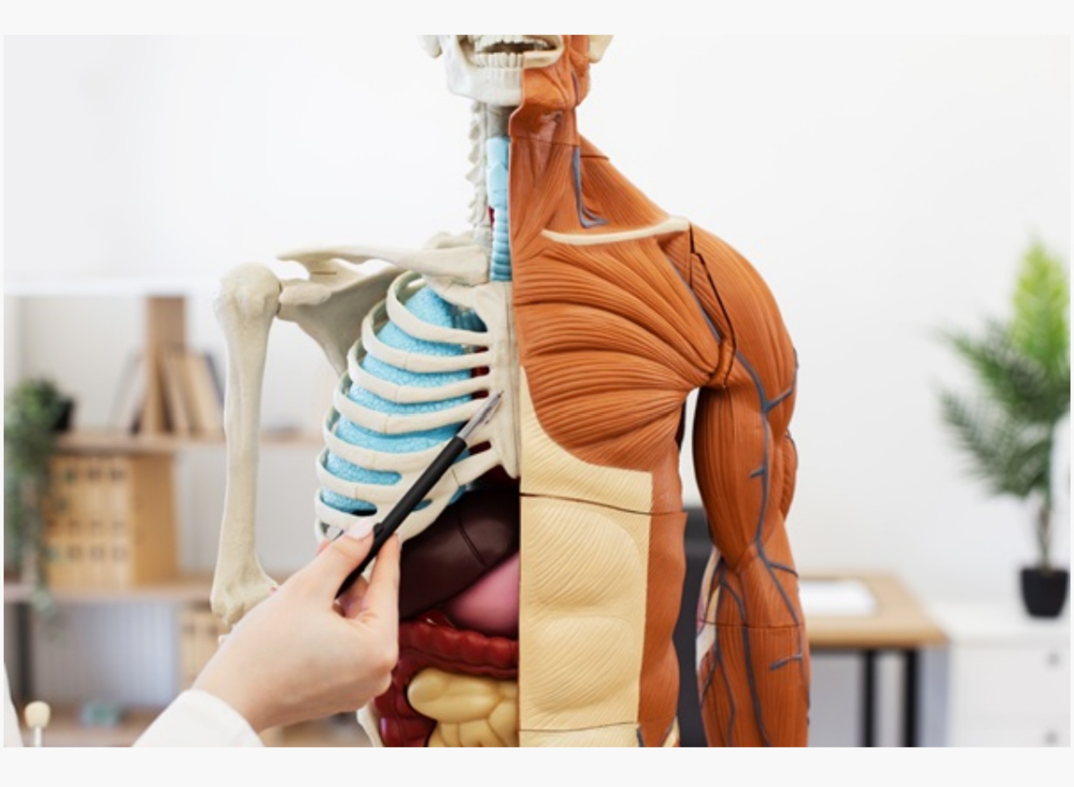
Anatomy & Physiology, Part 2

ATTENTION

Grading may take up to 7 days at semester end and during the summer semester!
Submit your **last assignment two weeks** before **your** school's semester ends.



The prerequisites for this course are: Algebra 1 (or Integrated Math 1), Biology, and Anatomy & Physiology, Part 1

How to Take This Course

Complete all the quizzes and the assignment in each unit. Once the quizzes for a unit are complete, you will have access to the unit test. We recommend you complete the unit assignment before you attempt the unit test; the assignment will help you prepare. You will have access to the final after you have been enrolled in the course for at least 30 days, all unit tests are completed, and your assignments are graded.

Allow 3-4 school days for an assignment to be graded. To understand the course grading, read the full course instructions.

Course Instructions

How This Course Works & Suggested Timeline

Submitting Your Assignments

Ask The Teacher

Meet your teacher for this course and ask a question.

Need help with the course? We offer online tutoring; find more details about it here.

MANDATORY QUIZ — Completion

You are required to take this quiz before you start the course. To prepare, read the course instructions and the "submitting your assignments" document, watch the video on the how this course works page and review the suggested timeline.

Learning Objectives & Standards Met By This Course

List of Lab Supplies and Equipment

This is a laboratory science course; all assignments are mandatory. You need to complete each lab as directed and submit the required drawings or diagrams.

You do NOT have to purchase a lab kit. Here is a **list of supplies and equipment** that you will need for the course.

In order to ensure that students are gaining the proper learning experience from our lab course, Anatomy & Physiology labs require the following:

1. All labs and assignments must be turned in using the documents provided on each lab page. These are found at the bottom of each assignment page. These documents MUST be converted to pdfs before submission.
2. Photos of your labs are required in order to receive a grade, as indicated in the lab. (All photos need to be in .jpeg format and will be inserted into the document.) Labs that do not have proper photo evidence may be returned for revision or result in a reduced score, regardless of written content. Refer to the lab instructions for the specific photos you must include.
3. When providing a diagram or drawing, they need to be hand drawn, not computer generated.
4. In order to keep within the SVHS Academic Integrity Policy, photos, diagrams or drawings taken from the internet or generated by AI are NOT allowed for any lab or assignment.

Unit 1: Muscular System

In this unit, students will:

- Describe the functions and properties of muscle tissue and compare skeletal, smooth, and cardiac muscles.
- Explain how the sarcomere and sliding filament theory produce muscle contraction.
- Describe how the neuromuscular junction initiates muscle contraction.
- Apply movement terminology and identify the roles of agonists, antagonists, synergists, and fixators.
- Identify major skeletal muscles and explain how muscular disorders affect movement and homeostasis.

Unit 1 Study Guide

This study guide will help you preview the concepts and guide your learning as each new skill or concept is introduced. Use this study guide as the foundation of your notes. You may use it on the unit quizzes, unit tests, and course final.

Click on the link above, and make a copy of the file. If you don't have access to Google Docs, preview the study guide and download an editable version or PDF.

1.1 Muscle Functions & Properties

Quiz 1.1 — Completion

1.2 Muscle Tissue Types

Quiz 1.2 — Completion

1.3 Sarcomere & Sliding Filament Theory

Quiz 1.3 — Completion

1.4 Neuromuscular Junction

Quiz 1.4 — Completion

1.5 Movement Terminology

Quiz 1.5 — Completion

1.6 Muscle Roles & Major Muscles

Quiz 1.6 — Completion

1.7 Muscle Disorders

Quiz 1.7 — Completion

Unit 1 Assignment: Investigating Muscle Fatigue Through Isometric Exercise — Completion

Unit 1 Test

Not available unless: The activity **Quiz 1.1** is marked complete ... **Show more**

Unit 2: Nervous System & Special Senses

In this unit, students will:

- Describe the organization and functions of the central and peripheral nervous systems.
- Explain how neurons generate and transmit nerve impulses and how reflex arcs produce rapid responses.
- Identify the major structures of the brain and spinal cord and explain how they are protected.
- Describe the anatomy and function of the special senses, including vision, hearing, taste, smell, and balance.
- Explain how disorders of the nervous system and special senses affect communication and body regulation.

Unit 2 Study Guide

This study guide will help you preview the concepts and guide your learning as each new skill or concept is introduced. Use this study guide as the foundation of your notes. You may use it on the unit quizzes, unit tests, and course final.

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2.1 Nervous System Organization & Functions

Quiz 2.1 — Completion

2.2 Neurons & Neuroglia

Quiz 2.2 — Completion

2.3 Brain & Spinal Cord

Quiz 2.3 — Completion

2.4 Nerve Impulse & Reflex Arc

Quiz 2.4 — Completion

2.5 CNS Protection & CSF

Quiz 2.5 — Completion

2.6 Special Senses Structures

Quiz 2.6 — Completion

2.7 Nervous System & Special Senses Disorders

Quiz 2.7 — Completion

Unit 2 Assignment: Investigating the Eye's Blind Spot — Completion

Unit 2 Test

Not available unless: The activity **Quiz 2.1** is marked complete ... **Show more**

Unit 3: Endocrine, Blood & Immunity

In this unit, students will:

- Explain how hormones and endocrine glands regulate body functions and maintain homeostasis.
- Describe the composition and functions of blood, including hemostasis and blood typing.
- Explain the roles of the lymphatic system and immune system in protecting the body from disease.
- Compare innate and adaptive immunity, including active and passive forms of immunity.
- Analyze disorders of the endocrine, blood, and immune systems and explain their effects on normal body function.

Unit 3 Study Guide

This study guide will help you preview the concepts and guide your learning as each new skill or concept is introduced. Use this study guide as the foundation of your notes. You may use it on the unit quizzes, unit tests, and course final.

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3.1 Endocrine Functions & Hormones

Quiz 3.1 — Completion

3.2 Endocrine Glands

Quiz 3.2 — Completion

3.3 Endocrine Disorders

Quiz 3.3 — Completion

3.4 Blood Components & Hemostasis

Quiz 3.4 — Completion

3.5 Blood Typing & Disorders

Quiz 3.5 — Completion

3.6 Lymphatic System & Immunity

Quiz 3.6 — Completion

3.7 Immune and Lymphatic Disorders

Quiz 3.7 — Completion

Unit 3 Assignment: Simulated Blood Typing & Blood Transfusion Compatibility — Completion

Unit 3 Test

Not available unless: The activity **Quiz 3.1** is marked complete ... **Show more**

Unit 4: Cardiovascular & Respiratory Systems

In this unit, students will:

- Describe the structure of the heart and trace the pathway of blood through the cardiovascular system.
- Explain how blood vessels, cardiac rhythm, and blood pressure support circulation.
- Identify the major structures of the respiratory system and trace the pathway of air through the body.
- Explain how ventilation and gas exchange maintain oxygen delivery and carbon dioxide removal.
- Analyze cardiovascular and respiratory disorders and explain how they disrupt homeostasis.

Unit 4 Study Guide

This study guide will help you preview the concepts and guide your learning as each new skill or concept is introduced. Use this study guide as the foundation of your notes. You may use it on the unit quizzes, unit tests, and course final.

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4.1 Cardiovascular Functions

Quiz 4.1 — Completion

4.2 Heart Structure & Blood Flow

Quiz 4.2 — Completion

4.3 Blood Vessels & Circulation

Quiz 4.3 — Completion

4.4 Cardiac Function: Rhythm and Blood Flow

Quiz 4.4 — Completion

4.5 Cardiovascular Disorders

Quiz 4.5 — Completion

4.6 Respiratory System Structure & Function

Quiz 4.6 — Completion

4.7 Respiratory Processes & Disorders

Quiz 4.7 — Completion

Unit 4 Assignment: The Cardiovascular and Respiratory Response to Exercise — Completion

Unit 4 Test

Not available unless: The activity **Quiz 4.1** is marked complete ... **Show more**

Unit 5: Digestive, Urinary & Reproductive Systems

In this unit, students will:

- Describe the structures and functions of the digestive system and explain how nutrients are digested and absorbed.
- Explain how the urinary system filters blood, removes wastes, and regulates fluid and electrolyte balance.
- Describe the anatomy and physiology of the male and female reproductive systems.
- Explain the processes of fertilization, human development, and hormone regulation in reproduction.
- Analyze disorders of the digestive, urinary, and reproductive systems and explain how they affect overall homeostasis.

Unit 5 Study Guide

This study guide will help you preview the concepts and guide your learning as each new skill or concept is introduced. Use this study guide as the foundation of your notes. You may use it on the unit quizzes, unit tests, and course final.

Click on the link above, and make a copy of the file. If you don't have access to Google Docs, preview the study guide and download an editable version or PDF.

5.1 Digestive System Structure & Processes

Quiz 5.1 — Completion

5.2 Digestive Organs, Enzymes & Functions

Quiz 5.2 — Completion

5.3 Digestive Disorders

Quiz 5.3 — Completion

5.4 Urinary System Structure & Urine Formation

Quiz 5.4 — Completion

5.5 Urinary Regulation & Disorders

Quiz 5.5 — Completion

5.6 Reproductive Anatomy & Hormones

Quiz 5.6 — Completion

5.7 Development, Pregnancy & Reproductive Disorders

Quiz 5.7 — Completion

Unit 5 Assignment: Modeling Kidney Filtration, Reabsorption & Fluid Balance — Completion

Unit 5 Test

Not available unless: The activity **Quiz 5.1** is marked complete ... **Show more**

Final Exam

You will have access to the final after you have been enrolled in the course for at least 30 days and when all unit tests are completed, and your assignments are graded.

Warning: You have only ONE attempt at the final. Are you ready to take the final? We highly recommend you take the practice final first, and if you are weak in any area, review the relevant course material again. You have unlimited attempts at the practice final; it will help you to prepare.

Remember, if you want to improve your grade in this course, you need to do that BEFORE you take the final exam.

Good Luck!!

Not available unless: The activity **MANDATORY QUIZ** is marked complete

Course Completion & Requesting a Transcript

Transcript - Send a transcript to your school to report the credits you earned. A transcript will list all the courses you have taken with us, including those still in progress.

Feedback - Before you go, we would appreciate your opinion on the course; please take 1 minute to complete the feedback form. We hope you enjoyed this course!

Course Feedback

Thank you for taking this course! Let us know what you think about it.

Request a Transcript

Notify your school that you have completed your course. Send them a transcript by email or mail. A transcript will list all the courses you have completed and those in progress.