

Syllabus

Virginia Health Science 1, Semester A

Course Overview

This one-semester course is intended to help you understand the basic structure and function of the human body. This course has 16 lessons organized into four units, plus four Unit Activities. Each lesson contains one or more Lesson Activities.

This course will cover the structure of the human body systems and their functions. It will also cover diseases and medical procedures related to each body system.

You will submit the Unit Activity documents to your teacher, and you will grade your work in the Lesson Activities by comparing them with given sample responses. The Unit Activities (submitted to the teacher) and the Lesson Activities (self-checked) are the major components of this course. There are other assessment components, namely the mastery test questions that feature along with the lesson; the pre- and post-test questions that come at the beginning and end of the unit, respectively; and an end-of-semester test. All of these tests are a combination of simple multiple-choice questions and technology enhanced (TE) questions.

Course Goals

This course will help you meet the following goals:

- Understand the basic components of medical terms.
- Identify various abbreviations, acronyms, and symbols used in health care.
- Identify the human body planes and cavities.
- Discuss directional terms used to describe the positions of structures and parts of the human body.
- Understand the structure and functions of the human body systems.
- Analyze diseases and disorders related to each body system.
- Analyze medical procedures related to each body system.
- Explore health science professions related to each body system.

Prerequisite Skills

Health Science—1A has the following prerequisites:

- basic computer skills
- ability to structure and process information
- familiarity with the writing process and following guidelines

General Skills

To participate in this course, you should be able to do the following:

- Perform basic operations with word processing software, such as Microsoft Word or Google Docs.
- Perform online research using various search engines and library databases.
- Communicate through email and participate in discussion boards.

For a complete list of general skills that are required for participation in online courses, refer to the Prerequisites section of the Plato Student Orientation document, found at the beginning of this course.

Credit Value

Health Science—1A is a 0.5-credit course.

Course Materials

- Notebook
- Computer with Internet connection and speakers or headphones
- Microsoft Word or equivalent
- Microsoft Excel or equivalent
- Microsoft PowerPoint or equivalent

Course Pacing Guide

This course description and pacing guide is intended to help you stay on schedule with your work. Note that your course instructor may modify the schedule to meet the specific needs of your class.

Unit 1: Medical Terminology

Summary

In this unit, students learn about the basic components of medical terms. They will explore different healthcare facilities. They will examine healthcare specializations and discuss medical procedures. They will familiarize themselves with various abbreviations, acronyms, and symbols used in health care. They will learn about the human body planes and cavities. Additionally, they will discuss directional terms used to describe the position of structures and parts of the human body.

Day	Activity/Objective	Type
1 day: 1	Syllabus and Plato Student Orientation <i>Review the Plato Student Orientation and Course Syllabus at the beginning of this course.</i>	Course Orientation
4 days: 2–5	Components of Medical Terms <i>Describe the basic components and origins of medical terms.</i>	Lesson
4 days: 6–9	Specializations, Facilities, and Procedures <i>Examine healthcare specializations, facilities, and procedures.</i>	Lesson
4 days: 10–13	Abbreviations, Acronyms, and Symbols <i>Describe abbreviations, acronyms, and symbols used in health care.</i>	Lesson
4 days: 14–17	Body Structure and Directional Terminology <i>Discuss the structure, planes, and cavities of the human body and their respective positions.</i>	Lesson
1 day: 18	Space Jumble	Game
4 days: 19–22	Unit Activity/Threaded Discussion—Unit 1	Unit Activity
1 day: 23	Posttest—Unit 1	Assessment

Unit 2: Musculoskeletal, Cardiovascular, and Integumentary Systems

Summary

In this unit, students learn about the structure and functions of each body system. They will identify diseases, disorders, and medical procedures related to each system. Additionally, they will explore health science professions related to each body system.

Day	Activity/Objective	Type
3 days: 24–26	The Skeletal System <i>Describe the structure and functions of the skeletal system.</i>	Lesson
3 days: 27–29	The Muscular System <i>Examine the structure, functions, and disorders of the muscular system.</i>	Lesson
4 days: 30–33	The Cardiovascular System <i>Examine the structure, functions, and disorders of the cardiovascular system.</i>	Lesson
4 days: 34–37	The Integumentary System <i>Describe the structure and functions of the integumentary system.</i>	Lesson
1 day: 38	Para Jumble	Game
4 days: 39–42	Unit Activity/Threaded Discussion—Unit 2	Unit Activity
1 day: 43	Posttest—Unit 2	Assessment

Unit 3: Respiratory, Nervous, Sensory, and Lymphatic and Immune Systems

Summary

In this unit, students learn about the structure and functions of each body system. They will identify diseases, disorders, and medical procedures related to each system. Additionally, they will explore health science professions related to each body system.

Day	Activity/Objective	Type
4 days: 44–47	The Respiratory System <i>Identify the structure, functions, and diseases of the respiratory system.</i>	Lesson
4 days: 48–51	The Nervous System <i>Examine how the nervous system is the control and communication center of the body.</i>	Lesson
4 days: 52–55	The Sensory System <i>Describe the structure, functions, and disorders of the sensory system.</i>	Lesson
4 days: 56–59	The Lymphatic and Immune Systems <i>Discuss how the lymphatic and immune systems fight infection and defend the body from disease.</i>	Lesson
1 day: 60	Thwack-A-Mole	Game
4 days: 61–64	Unit Activity/Threaded Discussion—Unit 3	Unit Activity
1 day: 65	Posttest—Unit 3	Assessment

Unit 4: Endocrine, Reproductive, Digestive, and Excretory Systems

Summary

In this unit, students learn about the structure and functions of each body system. They will identify diseases, disorders, and medical procedures related to each system. Additionally, they will explore health science professions related to each body system.

Day	Activity/Objective	Type
4 days: 66–69	The Endocrine System <i>Examine the structure, functions, and disorders of the endocrine system.</i>	Lesson
5 days: 70–74	The Male and Female Reproductive Systems <i>Describe the structure, functions, and disorders of the male and female reproductive systems.</i>	Lesson
4 days: 75–78	The Digestive System <i>Describe the structure of the digestive system and list the major functions.</i>	Lesson
4 days: 79–82	The Excretory System <i>Describe the structure and functions of the excretory system.</i>	Lesson
1 day: 83	Space Jumble	Game
4 days: 84–87	Unit Activity/Threaded Discussion—Unit 4	Unit Activity
1 day: 88	Posttest—Unit 4	Assessment
1 day: 89	Semester Review	
1 day: 90	End-of-Semester Test	Assessment