

Health Science Concepts

Course Number: CE3602

Grade level: 9

Credits: 1.0

Prerequisite Courses: Varies by state

Course Description

This year-long course introduces high school students to the fundamental concepts of anatomy and physiology – including the organization of the body, cellular functions, and the chemistry of life. As they progress through each unit, students will learn about the major body systems, common diseases and disorders, and the career specialties associated with each system. Students will investigate basic medical terminology as well as human reproduction and development. Students are introduced to these fundamental health science concepts through direct instruction, interactive tasks, and practice assignments. This course is intended to provide students with a strong base of core knowledge and skills that can be used in a variety of health science career pathways.

Course Objectives

Throughout the course, you will meet these goals:

- Examine the human body to explain its organization and functions
- Use basic medical terminology to describe health science concepts
- Understand common diseases and disorders of the body systems
- Define the stages of human reproduction and development
- Relate the body systems to their health science career specialties

Student Expectations

This course requires the same level of commitment from you as a traditional classroom course would. Throughout the course, you are expected to spend approximately five to seven hours per week online on the following activities:

- Interactive lessons that include a mixture of instruction and tasks
- Assignments in which you apply and extend learning in each lesson
- Assessments, including tests and cumulative exams

Communication

Your teacher will communicate with you regularly through discussions, email, chat, and system announcements. Through this communication with your teacher, you will monitor your progress through the course and improve your learning by reviewing material that was challenging for you.

You will also communicate with classmates, either via online tools or face to face, as you:

- Collaborate on projects
- Ask and answer questions in your peer group
- Develop speaking and listening skills

Grading Policy

You will be graded on the work you do online and the work you submit electronically to your teacher. The weighting for each category of graded activity is listed below.

Assignments	60%
Essays	0%
Lesson Quizzes	0%
Unit Tests	30%
Cumulative Exams	10%
Additional	0%

Scope and Sequence

When you log into the Virtual Classroom, you can view the entire course map, which provides a scope and sequence of all topics you will study. Clicking a lesson's link in the course map leads to a page listing instructional activities, assignments, and learning objectives specific to that lesson. The units of study are summarized below:

- Unit 1:** The Human Body and Genetics
- Unit 2:** Cells
- Unit 3:** Tissues, Organs, and Systems
- Unit 4:** Diseases and Disorders
- Unit 5:** Anatomy of the Body
- Unit 6:** Musculoskeletal System
- Unit 7:** Nervous and Sensory Systems
- Unit 8:** Cardiovascular System
- Unit 9:** Respiratory System
- Unit 10:** Integumentary, Lymphatic, and Immune Systems
- Unit 11:** Digestive, Urinary, and Endocrine Systems
- Unit 12:** Human Reproduction and Development