

Health Sciences

Pre-Requisites:

Credits:

Estimated Completion Time:

Earliest Start Date: March 2014

Description

Health Sciences: The Whole Individual

COURSE DESCRIPTION:

Will we ever find a cure for cancer? What treatments are best for conditions like diabetes and asthma? How are illnesses like meningitis, tuberculosis, and the measles identified and diagnosed? Health sciences provide the answers to questions such as these. In this course, students will be introduced to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. They will explore the importance of diagnostics and research in the identification and treatment of diseases. The course presents information and terminology for the health sciences and examines the contributions of different health science areas.

Major Topics and Concepts

Unit 1: The World of Health Sciences

Objectives:

Upon completion of this unit, you will be able to:

- * Discuss the history of health sciences.
- * Explain the different areas of the healthcare system.
- * Examine different types of healthcare sites.
- * Consider different payment options in the healthcare system.
- * Discuss some of the trends affecting the health sciences.

Unit 2: Careers in Health Science

Objectives:

Upon completion of this unit, you will be able to:

- * Discuss the different levels of service in the healthcare field.
- * Learn about some of the common characteristics shared by healthcare professionals.
- * Examine different health science professions and their contributions to the field.
- * Discuss some of the responsibilities within health science professions.
- * Learn more about licensing, certification, and educational requirements in health science careers.

Unit 3: The Life Span

Objectives:

Upon completion of this unit, you will be able to:

- * Define and discuss human development and the different aspects of development.
- * Identify the different stages of the human life span.
- * Examine some of the physical development and changes that occur during each stage of the life span.
- * Discuss some of the cognitive development and changes that occur during each stage of the life span.
- * Consider some of the health issues that may affect people at each stage of the life span.

Unit 4: Technical Skills

Objectives:

Upon completion of this unit, you will be able to:

- * Identify vital signs and how vital signs are measured.
- * Review the different systems of measurement that affect health science professions.
- * Discuss the steps in performing CPR.
- * Examine AEDs and how they are used.

- * Discuss some common first aid practices.

Unit 5: Health and Wellness

Objectives:

Upon completion of this unit, you will be able to:

- * Examine the different dimensions of health.
- * Define preventative medicine.
- * Discuss aspects of preventative medicine.
- * Examine some alternative medical systems.
- * Consider some alternative and complementary medical practices.

Unit 6: Leadership and Teamwork

Objectives:

Upon completion of this unit, you will be able to:

- * Discuss some theories of leadership and leadership styles.
- * Identify some of the characteristics that leaders often have.
- * Discuss the characteristics of effective healthcare teams.
- * Examine steps in building an effective healthcare team.
- * Consider some conflict styles and approaches to conflict resolution that people often use.

Unit 7: Health Communication

Objectives:

Upon completion of this unit, you will be able to:

- * Define communication and health communication.
- * Discuss some of the characteristics of health communication.
- * Examine barriers to effective communication.
- * Learn about active listening techniques.
- * Explore aspects of body language in healthcare settings.

Unit 8: Ethics and Legal Issues

Objectives:

Upon completion of this unit, you will be able to:

- * Define medical legal terms such as medical malpractice and negligence.
- * Discuss the legal responsibilities of health science professionals.
- * Identify laws and practices that protect patients in the healthcare system.
- * Consider how medical ethics affect the health sciences.
- * Explore the legal and ethical issues of medical confidentiality and end-of-life care.

Unit 9: Safety

Objectives:

Upon completion of this unit, you will be able to:

- * Discuss bloodborne pathogens and how the risk of exposure can be reduced.
- * Understand the actions that a healthcare professional should take if a fire breaks out in a setting with patients.
- * Examine how ergonomics help to reduce the risk of pain and injuries for healthcare workers.
- * Discuss how to reduce the risk of infections.
- * Consider the effects of stress and how stress can be reduced for healthcare professionals.

Unit 10: Informatics and Technology

Objectives:

Upon completion of this unit, you will be able to:

- * Define medical technology and informatics.
- * Examine the advantages and disadvantages of electronic data records.
- * Consider some of the ways that technology is affecting health communication and informatics.
- * Discuss how to write an effective health e-mail.
- * Examine how intercultural differences can affect health communication.