

Introduction to Careers in the Health Sciences	Scope and Sequence
Unit Lesson	Objectives
SCIENCE AND TECHNOLOGY	
Medicine From Ancient Times Through the Middle Ages	
	Explain the historical contributions of various cultures, religions, and genders to health care.
	Compare medical practices in ancient times to knowledge of current-day practices.
Medicine in the 17th and 18th Centuries	
	Relate misconceptions of the human body and disease to cultural and religious restrictions on the study of human anatomy.
	Compare and contrast the history of medicine with current trends.
	Discuss discoveries that led to a greater understanding of and ability to treat disease.
The Rise of Modern Medicine	
	Compare and contrast the history of medicine to current trends.
	Examine advances in medicine that have led to a greater understanding of anatomy and physiology.
	Relate advances in technology to the creation of new careers.
	Discover how research, technology, and innovation contributed to the development of modern medicine.
Project: Ancient vs. Modern Medical Practices	
Project: Different Health Career Possibilities	
Molecular Technology: Gene Chips	
	Examine the ways in which biotechnology has helped doctors understand genetic disorders.
	Explain the impact that the understanding of genetics has had on medicine.
	Discuss some careers that are related to biotechnology in the field of genetics.
Advances in Medical Imaging	

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		Explain the impact that technology has on diagnostic medicine.
		Describe specific technology used in medical imaging.
		Discuss careers that are related to medical imaging.
	Innovations in Transplantation	
		Describe the process of transplantation.
		Discuss the value of transplantation.
		Discuss the use of biotechnology with special attention to stem cell research, cloning, and genetic engineering.
		Explore careers in the field of transplant medicine.
	Project: Genetics	
	Project: How Technology is Used in Medicine	
	Test	
ANATOMY AND PHYSIOLOGY IN HEALTH AND DISEASE		
	Microscopic and Macroscopic Organization of the Body	
		Describe the major organ systems of the body.
		Discuss the function of the major organ systems in the body.
		Explain the organization of multicellular organisms from cells to a complete organism.
		Explore some careers related to this field of health science.
		Explain how bacteria can develop a resistance to antibiotics.
	Organ Systems and Their Functions	
		Identify the major organ systems of the body.
		Discuss the function of the major organ systems in the body.

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		Describe the characteristics of living things.
	Human Physiology	
		Describe some disorders that affect the different systems of the body.
		Discuss the different types of infection.
		Describe some specialty areas in medicine.
	Project: Systems of The Human Body	
	Project: Research of Disease or Disorder	
	The Pathophysiology of Cancer	
		Describe the causes and treatments for cancer.
		Discuss the risk factors for cancer.
		Discuss ways to decrease cancer risks.
		Describe how cancer forms.
		Explore the careers related to cancer.
	Pathophysiology of Diabetes	
		Explain the causes and symptoms of diabetes.
		Discuss the treatment for diabetes.
		Compare and contrast type 1 and type 2 diabetes.
		Define insulin-dependent diabetes.
		Define non-insulin-dependent diabetes.
		Discuss the risk factors for diabetes.
	Tuberculosis: A Worldwide Health Problem	
		Discuss the causes and treatments of tuberculosis.

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		Describe some ways to help prevent infection with tuberculosis.
		Explain the difference between latent and active tuberculosis.
		Examine some challenges of tuberculosis treatment.
	Project: Creating a Care Plan	
	Project: Creating a Training Aid	
	Test	
PRIVACY, ETHICS, AND SAFETY		
	The Patient's Bill of Rights	
		Explain the purpose of the Patient's Bill of Rights.
		Discuss the legal aspects of patient confidentiality.
		Discuss responsible practice within the framework of the Patient's Bill of Rights.
	HIPAA	
		Discuss the legal aspects of patient confidentiality.
		Describe the Health Insurance Portability and Accountability Act (HIPAA).
		Discuss the importance of HIPAA.
		Explain what health care workers can and cannot do with medical information.
		Be familiar with medical acronyms and abbreviations.
		Explore related careers.
	Ethics in Health Care	
		Discuss the concept of ethics in medicine.
		Explain the difference between ethics and morals.
		Analyze a situation and determine the ethical solution.

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		Recognize unethical behavior.
		Recognize when a breach of ethics should be reported.
	Project: The Patient's Bill of Rights Scenario	
	Project: Ethics and Morals	
	Hazards and Exposures	
		Discuss the hazards that health care workers face.
		Determine what steps would be taken if an individual is injured at work.
		Identify hazard signs and symbols.
	OSHA Standards	
		Discuss the importance of standards and guidelines for safety.
		Describe OSHA's mission and application.
		Discuss the penalties for violating OSHA's rules.
		Discuss the importance of the whistleblower laws.
		Describe employer and employee responsibilities.
	Safety in the Workplace	
		Describe how personal protective equipment can help infection control.
		Select appropriate personal protective equipment for different situations, including patient isolation procedures.
		Describe patient restraints and the cautions in using them.
		Describe ways to prevent adverse patient outcomes.
		Discuss the requirements for and types of doctors orders.
		Explain why CPR/first-aid certification is important.
		Explore related health careers.

Unit Lesson**Objectives**

Project: Disposing of Biological Waste

Project: Real World Examples

Test

COMMUNICATION AND TEAMWORK IN THE HEALTH CARE ENVIRONMENT

The Health Care Hierarchy – A Thing of the Past

Explain how the structure of health care teams impacts patient care.

Discuss the advantages and disadvantages of a health care team.

Compare and contrast a hierarchal structure and the structure of an interdisciplinary team.

Project: Pre-lesson Activity Continued

The Evolution of Health Care Teams

Explain the different types of teams found in health care organizations.

Explain the process of team formation and function.

Explain diversity and the importance of diverse teams.

Discuss the importance of respect in teams.

Identify the common goals, advantages, and disadvantages of teams.

Project: Research Health Care Teams

A Model of Success: Geriatric Teams

Describe the advantages of health care teams.

Discuss the geriatric team model and its successes.

Discuss team actions and interactions relative to a specific example.

Discuss some common characteristics of teams and team members.

Communication with Team Members

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		Describe key elements of effective communication.
		Discuss the importance of effective communication in a health care team.
		Explain some strategies for effective communication in a health care team.
	Project: Strategies For Effective Communication	
	Communication with Patients	
		Describe key elements of effective communication with patients.
		Discuss the importance of effective communication in health care worker-patient relationships.
		Explain some strategies for effective communication in health care worker-patient relationships.
	Project: Mind Map of The Three Types of Communication	
	Communication with the General Public	
		Describe the importance of effective communication between health care workers and the public.
		Describe important considerations when communicating with the public.
		Compare and contrast different types of interactions that take place between health care workers and the public.
	Test	
HEALTH CAREERS: CREATING A DIVERSE WORKFORCE OF LIFELONG LEARNERS		
	Academic Preparation for Careers in Health Science	
		Describe the academic preparation necessary for different categories of careers in the health sciences.
		Discuss the careers that require a training program, associate's degree, bachelor's degree, master's degree, and a doctoral degree.
		Discuss some short- and long-term educational goals.
	Project: Planning Ahead	

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	Licensure and Certification	
		Discuss the requirements and procedures for licensing and certification.
		Discuss the importance of ethics in health professions.
		Describe some consequences of a breach of ethics.
	Keeping up with Advances in your Field	
		Discuss advances in the field of health science.
		Describe why continuing education is important.
		Explain where professionals find opportunities for continuing education.
	Project: Exploring Careers	
	Professional Organizations	
		Discuss the importance of joining a professional organization or professional society.
		Evaluate the value of a specific professional organization or professional society.
		Discuss how professional organizations or societies can help professionals keep abreast of advances in health sciences.
		Weigh out the importance of joining a pre-health organization.
	Project: Comparing and Contrasting Health Science Careers	
	Finding the Right Career for You	
		Discuss the personal characteristics that are important for health science professions.
		Discuss some important factors to consider when choosing a health science career.
		Identify some health science careers that interest you.
	Project: Writing a Health Science Job Description	
	Finding the Right School to Attend	

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Scope and Sequence

Unit Lesson

Objectives

Discuss some important considerations for selecting a school.

Explain the importance of accreditation.

Compare education programs and determine their suitability.

Test

COURSE REVIEW AND EXAM

Review

Exam