

HEALTH SCIENCE 2, SEMESTER A

Credits: 0.5

COURSE OVERVIEW AND GOALS

[Getting Started/Best Practices Template](#)

This one-semester course is intended to help you understand the skills required to achieve success in modern-day careers related to health care. This course has 18 lessons organized into three units, plus three Unit Activities. Each lesson contains one or more Lesson Activities.

This course will cover diverse topics such as the healthcare system, diagnostic services, stress management, health informatics, medical math, and professional conduct.

You will submit the Unit Activities 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.

Prerequisite courses: There are no recommended prerequisite courses.

Foundational skills: general literacy and communication skills needed for all high school online courses

By the end of this course, you will be able to do the following:

- ❖ Examine the types of healthcare delivery systems, the factors that shape them, and the barriers that affect access to care in the United States.
- ❖ Analyze professional career pathways across healthcare sectors, including the roles, responsibilities, advancement opportunities, and educational requirements within therapeutic, diagnostic, health informatics, support, and biotechnology R&D services.
- ❖ Examine how multidisciplinary healthcare teams collaborate to deliver quality care, and how trends and technologies are evolving across healthcare service fields.
- ❖ Evaluate the impact of communication, leadership, decision-making, problem-solving, and emotional intelligence skills on employability and quality patient care in healthcare settings.

- ❖ Apply decision-making models, abstract reasoning, and conflict resolution processes to healthcare scenarios, incorporating stress and grief management strategies for patients and providers.
- ❖ Analyze disparity issues, cultural beliefs, and alternative medicine practices that influence healthcare delivery and can create conflicts between patients and providers.
- ❖ Evaluate healthcare professional conduct in relation to HIPAA compliance, patient privacy, documentation standards, and the ethical use of technology in the provider-patient relationship.
- ❖ Analyze the role of mathematical calculations, unit conversions, the 24-hour clock, and accurate medical record documentation in reducing medical error and supporting safe patient care.

COURSE COMPONENTS AND GRADING RUBRIC

The table gives a breakdown of the weight for each component in the course. Weight represents the percentage of the total score coming from each activity.

Course Components	Count	Weight*
Pretest. <i>A pretest is an optional assessment, typically designed for credit recovery. If a student shows mastery of a lesson objective, the student may be automatically exempted from the upcoming activities associated with the mastered objective. Pretests are not included as a component of the student's final grade.</i>	3	0%
Module. <i>Each module in this course contains an interactive tutorial or study and an associated mastery test. Tutorials and studies combine instruction and practice to prepare students for the mastery test, which is a computer-scored lesson-level summative assessment. The module score comes from a student's score on the mastery test.</i>	18	30%
Discussion. <i>A discussion activity is an opportunity for students to collaborate with their peers. An online threaded discussion mirrors the educational experience of a classroom discussion initiated when a teacher asks a complex, open-ended question. Students can engage in the discussion by responding both to the question and to the thoughts of others allowing for higher-order thinking about terminal objectives.</i>	3	10%

Course Components	Count	Weight*
Unit Activity. <i>A Unit Activity is at the end of a unit and constitutes one or more small tasks. Its purpose is to deepen understanding of key unit concepts and tie them together. Each Unit Activity includes a simple rubric. The teacher versions include both a rubric and modeled sample answers. Unit Activities are teacher graded.</i>	3	20%
Posttest. <i>A posttest appears at the end of each unit.</i>	3	20%
End-of-Semester Test. <i>An end-of-semester test (EOS) appears at the end of each course.</i>	1	20%
Total	31	100%

Weight* Teachers may manually adjust these weights if desired, per district grading requirements.

SCOPE AND SEQUENCE

UNIT 1: CAREER PATHWAYS

In this unit, you will learn about the healthcare delivery systems and the role of multidisciplinary teams across the systems. You will also learn about the available career options and skills required to pursue these careers in the field of therapeutic, diagnostic, and support services.

Additionally, in this unit, you will familiarize yourself with the scope of the career fields and the emerging trends and advancements in the fields related to health care.

Activity	Activity Objective
Syllabus	Review the Course Syllabus at the beginning of the course.
Healthcare Delivery Systems	- Recognize types of healthcare delivery systems and factors that impact them. - Identify the factors that affect access to health care in the United States.

Activity	Activity Objective
Healthcare Teams	- Identify careers in professional healthcare. - Summarize how multidisciplinary teams collaborate to deliver quality health care.
Therapeutic Services	- Identify the roles of therapeutic services professionals and career and advancement opportunities. - Summarize the evolution of trends and technologies in the therapeutic services field.
Diagnostic Services	- Identify the roles of diagnostic services professionals and career and advancement opportunities. - Summarize the evolution of trends and technologies in the diagnostic services field.
Health Informatics	- Identify the roles of health informatics services professionals and career and advancement opportunities. - Summarize the evolution of trends and technologies in the health informatics services field.
Support Services	- Identify the roles of support services professionals and career and advancement opportunities. - Summarize the evolution of trends and technologies in the support services field.
Biotechnology Research and Development	- Identify the roles of biotechnology R&D professionals and career and advancement opportunities. - Summarize the evolution of trends and technologies in the biotechnology R&D services field.

Activity	Activity Objective
Unit Activity: Career Pathways	Identify a healthcare career pathway, including one career in the pathway, job responsibilities, and educational requirements.

UNIT 2: EMPLOYABILITY SKILLS

In this unit, you will learn how to develop communication and leadership skills. You will also understand how you can apply critical thinking and problem-solving techniques to resolve a conflict. Additionally, you will learn how to combat stressful situations at work.

Activity	Activity Objective
Communication Skills	Identify effective verbal and nonverbal communication skills and techniques that are crucial to quality patient care.
Leadership Skills	Identify effective leadership skills and techniques in the health care industry.
Decision Making and Critical Thinking	- Recognize examples of good decision making in the field of healthcare. - Identify examples of how healthcare professionals use abstract reasoning skills.
Problem Solving and Conflict Resolution	- Identify effective problem solving and conflict resolution techniques and processes essential for healthcare professionals. - Name examples of cultural beliefs that influence health care and how these beliefs can result in conflicts. - Apply a decision-making model to arrive at a decision for a healthcare scenario.

Activity	Activity Objective
Stress Management	- Identify stress and grief management techniques for health care workers and patients. - Name the effects of stress hormones in the body.
Unit Activity: Employability Skills	Examine how skills such as leadership skills, communication skills, and decision-making skills affect employability and help healthcare professionals do their jobs effectively.

UNIT 3: PROFESSIONAL SKILLS

In this unit, you will learn how to conduct yourself professionally, and maintain healthy relationships with your colleagues and patients. You will understand how to handle colleagues and patients belonging to diverse ethnic groups. You will also familiarize yourself with the various technological tools to gather information, and use math to perform medical tasks.

Activity	Activity Objective
Professional Conduct	- Identify essential qualities, skills, and professional conduct in various health care careers. - Recognize methods to accomplish professional goals.
Healthy Relationships	- Examine how technological innovations and advancements affect the provider-patient relationship. - Identify the role of emotional intelligence in maintaining healthy personal and professional relationships.
Diversity at the Workplace	- Identify disparity issues in the health care industry. - Examine the healthcare beliefs and alternative medicine practices of different cultural groups.

Activity	Activity Objective
Technology and Health Care	• Compare the positives and negatives of technology on the lives and health of individuals. • Examine examples of HIPPA violations.
Gathering, Filing, and Reporting Information	• Apply the FIFE method of interviewing to write sample questions. • Recognize how to document medical record information. • Evaluate healthcare professional actions in terms of violation of privacy.
Medical Math	• Convert units of values in medical measurements. • Recognize the use of the 24 hour clock in medicine. • Identify common causes of medical error. • Identify tasks in which healthcare professionals are required to do mathematical calculations.
Unit Activity: Professional Skills	• Examine how professional skills impact the work of healthcare professional. • Write interview questions for a chosen healthcare career.

COURSE MAP

You will achieve course level objectives by completing each lesson's instruction, assignments, and assessments. For a detailed look at how the materials meet these objectives, review the [course map](#).