

HEALTH SCIENCE 2, SEMESTER B

Credits: 0.5

COURSE OVERVIEW AND GOALS

[Getting Started/Best Practices Template](#)

This one-semester course is intended as a practical, hands-on guide to help you understand the skills required to achieve success in modern-day careers. 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 various topics in health science, such as infection control, medical and surgical equipment, disease prevention, and rehabilitative care.

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: Health Science 2, Semester A

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:

- ❖ Analyze the standards, ethics, and laws governing healthcare in the United States and their impact on workers, patients' rights, privacy, and legal accountability.
- ❖ Analyze healthcare career pathways, including the certifications, registrations, and licensures required and the scope of practice appropriate to each pathway.
- ❖ Examine how infection and disease prevention guidelines, community resources, and healthcare cost containment strategies support patient and population health outcomes.
- ❖ Evaluate infection control protocols, sterilization practices, medical waste management, and personal protective equipment by applying root cause analysis to identify breakdowns in the infection control cycle.

- ❖ Create a proposal for a health initiative by drawing on CDC guidelines related to personal and patient wellness, body mechanics, environmental safety, and emergency preparedness.
- ❖ Evaluate body mechanics, ergonomics, environmental safety measures, OSHA guidelines, and emergency preparedness protocols, including DNR orders and living wills, in terms of their role in protecting healthcare workers and patients.
- ❖ Analyze the history, techniques, and benefits of holistic, movement/massage, Chinese, and Indian medicine traditions, comparing Eastern and Western approaches and identifying how these practices are integrated into contemporary healthcare.
- ❖ Analyze careers in complementary and alternative healthcare, including required education and certifications, scope of practice, future outlook, and cultural traditions underlying healthcare remedies across communities.

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>	4	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>	16	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>	4	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>	4	20%
Posttest. <i>A posttest appears at the end of each unit.</i>	4	20%
End-of-Semester Test. <i>An end-of-semester test (EOS) appears at the end of each course.</i>	1	20%
Total	33	100%

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

SCOPE AND SEQUENCE

UNIT 1: PROFESSIONAL STANDARDS AND ETHICS

In this unit, you will learn about the standards, ethics, and laws related to health care in the United States. You will also learn the scope of practice appropriate for patient care in the different healthcare pathways. Additionally, in this unit, you will familiarize yourself with patients' rights regarding their health care, including the right to privacy.

Activity	Activity Objective
Syllabus	Review the Course Syllabus at the beginning of the course.
Standards, Ethics, and Laws Related to Health Care	Identify standards, ethics, and laws and their impact on health care workers and patients in the United States.

Activity	Activity Objective
Scope of Practice	- Identify various careers in health care and the certifications, registrations, or licensures required and the steps to acquire these credentials. - Recognize the scope of practice appropriate for patient care in the different healthcare pathways.
Patients' Rights and Choices	Examine patients' rights regarding their health care, including the right to privacy.
Unit Activity: Professional Standards and Ethics	Summarize legal cases about law violations and healthcare rights of patients.

UNIT 2: DISEASE PREVENTION

In this unit, you will learn about the elements of, and guidelines for, infection control and hygiene in health care. You will also familiarize yourself with the need for safe, sterilized medical and surgical equipment in healthcare organizations. You will learn about the safe waste management techniques in health care. Additionally, you will learn how disease prevention helps with healthcare cost containment.

Activity	Activity Objective
Infection Control	Identify guidelines for infection and disease control and prevention in health care, including community resources available to patients.
Medical and Surgical Equipment	Summarize the role of safe, sterilized medical and surgical equipment in infection and disease control.
Waste Management	- Identify types of medical hazardous waste and how to handle them. - Identify unethical practices in medical waste management.

Activity	Activity Objective
Disease Prevention and Cost Containment	Identify how disease prevention helps with healthcare cost containment.
Unit Activity: Disease Prevention	- Outline the steps of a breakdown in the infection control cycle, including the role of asepsis and sterilization, medical and surgical waste management, and personal protective equipment. - Apply root cause analysis to determine the source of a breakdown in the infection control cycle.

UNIT 3: SAFETY AND WELLNESS

In this unit, you will familiarize yourself with the healthy behaviors and wellness strategies for healthcare professionals and patients. You will also learn principles of body mechanics and ergonomics to avoid injury. In addition, you will also analyze measures to ensure environmental safety in healthcare facilities. In this unit, you will also examine how to handle emergency situations in health care.

Activity	Activity Objective
Personal and Patient Wellness	Recognize healthy behaviors, wellness strategies and tools for healthcare professionals and patients.
Body Mechanics and Ergonomics	- Identify the principles of good body mechanics and ergonomics. - List methods to avoid injury.
Environmental Safety	- Identify measures to ensure environmental safety in healthcare facilities. - Summarize the role of OSHA and the impact of its guidelines on healthcare organizations.

Activity	Activity Objective
Emergency Preparedness and Planning	- Recognize ways to handle emergency health situations in and out of medical facilities. - Compare DNR orders and living wills.
Unit Activity: Safety and Wellness	- Identify CDC health initiatives related to personal and patient wellness, body mechanics and ergonomics, environmental safety, and emergency preparedness and planning. - Write a proposal for a new health initiative in one of these areas.

UNIT 4: COMPLEMENTARY AND ALTERNATIVE HEALTH CARE

In this unit, you will familiarize yourself with the techniques involved in, and benefits of, movement and massage therapies. You will learn about the history, techniques, and benefits of Indian and Chinese medicine. Finally, you will learn about the remedies rooted in different cultures and traditions.

Activity	Activity Objective
Rehabilitative Care	- Compare rehabilitative healthcare agencies and services to traditional hospitals. - Identify the role of rehabilitative medicine in health care.
Movement and Massage Therapies	- Recognize the techniques and benefits of holistic medicine and movement and massage therapy. - Identify medical conditions that movement and massage therapies can help improve.
Chinese Medicine	- Recall the history and development of Chinese medicine, including treatments and its integration into Western medicine. - Compare Eastern and Western medicine.

Activity	Activity Objective
Indian Medicine	- Recognize the history, techniques, and benefits of Indian medicine. - Identify services and treatments available in local communities.
Cultural and Traditional Remedies	Identify the healthcare remedies rooted in different cultures and traditions.
Unit Activity: Complementary and Alternative Health Care	Identify three careers in complementary and alternative health care, including education and/or certification needed to prepare for each career, the future outlook for each career, and the tasks and responsibilities involved in each 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](#).