



**eDynamicLearning**

CAREER & ELECTIVE COURSES



**Course Syllabus**



# Health Science II: Patient Care & Medical Services

## Course Description

Challenging. Variable. Rewarding. These three words can be used to describe many careers in the health sciences. In this course, you will learn more about what it takes to be a successful health science professional, including how to communicate with patients. You'll explore the rights and responsibilities of both patients and health science professionals in patient care and learn more about how to promote wellness among patients and health care staffs. Finally, you'll learn more about safety in health science settings and the challenges and procedures of emergency care, infection control, and blood-borne pathogens.

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## Certification Project

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### Learning Objectives

- Receive training in cardio pulmonary respiration (CPR)
- Receive training for using an automated external defibrillator (AED)
- Receive training in removing foreign body airway obstructions (FBOA)
- Receive training in basic first aid

### Assignments

Certification Project	Project	20 points
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## Unit 1: Health Care Systems

### Unit Summary

Health services is one of the fastest-growing industries in the United States, and this unit explores the ways in which these services are delivered. Health insurance is an important part of the industry, and there are several types to meet patients' needs. Taking care of patients is not just up to doctors; it requires a team of health care professionals to ensure patients' needs are met. For this team to be effective, the patient needs to work with the team and do his or her part to help the team deliver the most effective care. As with all industries, health science adapts with the times, including responding to new legislation, using technology to improve services, and responding to pressing health issues.

### Learning Objectives

- You will identify the basic components of the health care delivery system, including public, private, government, and nonprofit sectors.
- You will identify common methods of payment for health care services.
- You will describe the composition and functions of a health care team.
- You will describe factors that influence the current delivery system of health care.
- You will explain the impact of emerging issues including technology, epidemiology, bioethics, and socioeconomics on health care delivery systems.

### Assignments

Unit 1 Text Questions	Homework	10 points
Unit 1 Online Lab Questions	Homework	10 points
Unit 1 Activity	Activity	15 points
Unit 1 Discussion Assignment 1	Discussion	5 points
Unit 1 Discussion Assignment 2	Discussion	5 points
Unit 1 Quiz	Quiz	15 points



## Unit 2: Communication in Health Care

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### Unit Summary

This unit explores the importance of communication skills in the health science field. One of the first steps is using the specific language of the medical professions. This shared language helps health care workers communicate with each other. However, many professionals will spend a lot of time communicating with patients. Understanding the basics of effective communication can help health care professionals get the information they need to best serve their patients. In addition, recognizing some of the reasons that communication breaks down lets health science professionals avoid some of these common issues.

### Learning Objectives

- You will use appropriate medical terminology and abbreviations.
- You will recognize the importance of patient/client education regarding healthcare.
- You will develop basic speaking and active listening skills.
- You will analyze elements of communication using a sender-receiver model.
- You will distinguish between and report subjective and objective information.

### Assignments

Unit 2 Text Questions	Homework	10 points
Unit 2 Online Lab Questions	Homework	10 points
Unit 2 Discussion Assignment 1	Discussion	5 points
Unit 2 Discussion Assignment 2	Discussion	5 points
Unit 2 Quiz	Quiz	15 points





## Unit 4: Health Care Workers' Responsibilities in the Workplace

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### Unit Summary

This unit explores the laws designed to protect employees in health care, including their right to a safe workplace that is free of harassment. At the same time, employees in health care need to be particularly mindful of the professional ethics that define how they perform their duties. Those in health care will face a variety of ethical issues in the course of their jobs since life or death choices are part of the job. Legal and ethical obligations work together, providing the guidelines those in the field need to effectively care for patients. These ethics also help shape employee behavior, particularly in essential areas like the handling controlled substances where accountability is key.

### Learning Objectives

- You will explain the laws governing harassment, labor and employment.
- You will differentiate between legal and ethical issues in healthcare.
- You will recognize and report illegal and/or unethical practices of healthcare workers.
- You will identify and compare personal, professional, and organizational ethics.
- You will distinguish among the five schedules of controlled substances.

### Assignments

Unit 4 Text Questions	Homework	10 points
Unit 4 Online Lab Questions	Homework	10 points
Unit 4 Discussion Assignment 1	Discussion	5 points
Unit 4 Discussion Assignment 2	Discussion	5 points
Unit 4 Quiz	Quiz	15 points



## Unit 5: Wellness

### Unit Summary

This unit explores the principle of wellness, and what it takes to be physically and mentally healthy. Regular screening and examinations are an essential part of the equation, as is attention to diet and exercise. These health habits really make a difference over the course of a lifetime. Avoiding high-risk behavior, such as smoking, consuming alcohol and taking illegal drugs, also makes for a longer and healthier life. Managing stress, even in extreme circumstances, such as after the death of a loved one, is also an important skill. When individuals take these steps to maintain wellness, they are paving the way for a long and healthy life. In addition to traditional medical practice, for an increasing number of Americans, personal wellness also depends on using alternative medicine to promote health and wellness.

### Learning Objectives

- You will describe strategies for prevention of diseases including health screenings and examinations.
- You will discuss the adverse effects of the use of alcohol, tobacco, and both legal and illegal drugs on the human body and apply safety practices related to these and other high-risk behaviors.
- You will explain the basic concepts of positive self-image, wellness and stress.
- You will develop a wellness and stress control plan that can be used in personal and professional life.
- You will recognize the steps in the grief process.

### Assignments

Unit 5 Text Questions	Homework	10 points
Unit 5 Online Lab Questions	Homework	10 points
Unit 5 Activity 1	Activity	15 points
Unit 5 Activity 2	Activity	15 points
Unit 5 Discussion Assignment 1	Discussion	5 points
Unit 5 Discussion Assignment 2	Discussion	5 points
Unit 5 Quiz	Quiz	15 points





## Midterm Exam

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### Learning Objectives

- Review information acquired and mastered from this course up to this point.
- Take a course exam based on material from the first five units in this course (Note: You will be able to open this exam only one time.)

### Assignments

Midterm Exam	Exam	50 points
Midterm Discussion Assignment	Discussion	5 points



## Unit 6: Workplace Safety

### Unit Summary

This unit explores the many safety practices put into place by OSHA and the CDC to protect those working in health care on the job. Safety comes through proper training on managing common hazards in the workplace, such as working with chemicals and moving heavy objects or patients. Creating a safe environment is not just for employees; health care workers need to keep their own, coworker's, and patient's safety in mind as well. Making sure that they avoid common medical errors and follow recommended guideline for identifying patients help make patients safer while they are in medical facilities. Guidelines for moving patients also benefit employees and patients since they eliminate the chance of injury for both. In the event of an emergency, health care workers need to be able to take care of themselves and their patients, so knowing emergency procedures is also part of a career in the health sciences.

### Learning Objectives

- You will recognize safe and unsafe working conditions and report safety hazards.
- You will identify and describe methods in medical error reduction and prevention in the various healthcare settings.
- You will recognize Materials Data Safety Sheets (MSDS) and comply with safety signs, symbols and labels.
- You will demonstrate proper body mechanics and ergonomics.
- You will describe fire, safety, disaster and evacuations procedures.

### Assignments

Unit 6 Text Questions	Homework	10 points
Unit 6 Online Lab Questions	Homework	10 points
Unit 6 Discussion Assignment 1	Discussion	5 points
Unit 6 Discussion Assignment 2	Discussion	5 points
Unit 6 Quiz	Quiz	15 points



## Unit 7: Emergency Care and Infection Control

### Unit Summary

This unit explores the basic process of administering first aid and when it is appropriate to offer emergency treatment to a stranger in public. It also defines the vital signs and provides basic instructions for taking and recording them. Understanding the role of microbes and how they move through the environment allows those in health care to limit their spread through sterilization processes, hand washing, and appropriate disposal of biohazardous materials. When these steps are taking, the environment is safer for everyone. When problems do emerge in a health care setting, turning to root cause analysis offers valuable insight into the core issues creating the problems. Only when these are identified can productive solutions be put in place.

### Learning Objectives

- You will describe legal parameters relating to the administration of emergency care.
- You will monitor and record vital signs.
- You will define principles of infection control including standard and transmission based precautions.
- You will demonstrate knowledge of medical asepsis and practice procedures such as hand washing and isolation.
- You will explain and apply the theory of root-cause analysis.

### Assignments

Unit 7 Text Questions	Homework	10 points
Unit 7 Online Lab Questions	Homework	10 points
Unit 7 Activity	Activity	15 points
Unit 7 Discussion Assignment 1	Discussion	5 points
Unit 7 Discussion Assignment 2	Discussion	5 points
Unit 7 Quiz	Quiz	15 points



## Unit 8: Technology in Health Care and Medical Math

### Unit Summary

This unit explores the role of technology in healthcare, particularly the kinds of computers that health care professionals with use to perform the basic duties of their jobs. Computers are used for everything from recording information to diagnosing medical problems, so those in working in health care need to be able to used them effectively. One of the most common uses of technology is communication, whether it is researchers sharing medical breakthroughs around the world of patients being able to communicate more effectively with their own doctors. As valuable as technology is, those in health care still need to use their basic math skills. Understanding basic principles, like ratios, or how to convert pounds to kilograms ensures that medical professionals have the skills that they need to get the job done.

### Learning Objectives

- You will recognize technology applications in healthcare.
- You will measure time, temperature, distance, capacity, and mass/weight.
- You will demonstrate ability to evaluate and draw conclusions.
- You will construct viable arguments and critique the reasoning of others.
- You will organize and communicate the results obtained by observation and experimentation.

### Assignments

Unit 8 Text Questions	Homework	10 points
Unit 8 Online Lab Questions	Homework	10 points
Unit 8 Activity	Activity	15 points
Unit 8 Discussion Assignment 1	Discussion	5 points
Unit 8 Discussion Assignment 2	Discussion	5 points
Unit 8 Quiz	Quiz	15 points



## Unit 9: Blood-Borne Illnesses

### Unit Summary

This unit examines the most common blood-borne illnesses, including HIV/AIDS, and hepatitis B and C. Understanding how these viruses are transmitted is one of the most important steps in preventing their spread. There are specific behaviors that aid the spread of these diseases, and health care professionals have an obligation to educate patients about what they need to do to reduce these risks. There are also specific processes that need to be followed when testing patients for blood-borne illnesses. Because these diseases pose a risk to health care workers, they also need to know who to protect themselves and the actions to take should they be in danger of infection.

### Learning Objectives

- You will demonstrate knowledge of the legal aspects of HIV/AIDS, including testing.
- You will identify community resources and services available to the individuals with diseases caused by blood-borne pathogens.
- You will identify “at risk” behaviors that promote the spread of diseases caused by blood-borne pathogens and the public education necessary to combat the spread of these diseases.
- You will apply infection control techniques designed to prevent the spread of diseases caused by blood-borne pathogens to the care of all patients following Centers for Disease Control (CDC) guidelines.
- You will recognize emerging diseases and disorders.

### Assignments

Unit 9 Text Questions	Homework	10 points
Unit 9 Online Lab Questions	Homework	10 points
Unit 9 Activity	Activity	15 points
Unit 9 Discussion Assignment 1	Discussion	5 points
Unit 9 Discussion Assignment 2	Discussion	5 points
Unit 9 Quiz	Quiz	15 points



## Unit 10: Getting a Job in the Health Care Industry

### Unit Summary

This unit explores expectation of professional conduct in the health care industry, including personal qualities of health care workers and attention to personal presentation. It also emphasizes the importance of teamwork and the components of effective leadership. Students will get an overview of the multiple career paths available in health care and understand the process of looking and applying for a job. This included an overview of the education and credentialing requirements in health care and how to navigate the application process.

### Learning Objectives

- You will identify personal traits or attitudes desirable in a member of the healthcare team.
- You will examine levels of education, credentialing requirements including licensure and certification, employment opportunities, workplace environments and career growth potential.
- You will compare careers within the health science career pathways (diagnostic services, therapeutic services, health informatics, support services or biotechnology research and development).
- You will write an appropriate resume.
- You will identify characteristics of effective teams.

### Assignments

Unit 10 Text Questions	Homework	10 points
Unit 10 Online Lab Questions	Homework	10 points
Unit 10 Activity 1	Activity	15 points
Unit 10 Activity 2	Activity	15 points
Unit 10 Discussion Assignment 1	Discussion	5 points
Unit 10 Discussion Assignment 2	Discussion	5 points
Unit 10 Quiz	Quiz	15 points



## Final Exam

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### Learning Objectives

- Review information acquired and mastered from this course up to this point.
- Take a course exam based on material from units six to ten in this course – the last five units. (Note: You will be able to open this exam only one time.)

### Assignments

Final Exam	Exam	50 points
Class Reflection Discussion Assignment	Discussion	10 points