

Perris Union High School District

Course of Study

A. COURSE INFORMATION

Course Title: <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">CTE Public Safety Personnel/First Aid</div> <input type="checkbox"/> New <input checked="" type="checkbox"/> Revised	Subject Area: <input type="checkbox"/> Social Science <input type="checkbox"/> English <input type="checkbox"/> Mathematics <input type="checkbox"/> Laboratory Science <input type="checkbox"/> World Languages <input type="checkbox"/> Visual or Performing Arts <input checked="" type="checkbox"/> College Prep Elective <input type="checkbox"/> Other	Grade Level <input type="checkbox"/> MS <input type="checkbox"/> HS <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input checked="" type="checkbox"/> 11 <input checked="" type="checkbox"/> 12
If revised previous course name if changed <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">EMR - Emergency Medical Response</div>	Is this classified as a Career Technical Education course? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Transcript Course Code/Number: <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">608371/2</div> (To be assigned by Educational Services)	Required for Graduation: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Meets UC/CSU Requirements? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Was this course <i>previously approved by UC</i> for PUHSD? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Will be verified by Ed Services)	Credential Required to teach this course: <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <i>Public Services</i> <i>Designated Subjects: Career Technical Education</i> <i>To be completed by: Human Resources only!</i> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 5px; width: 60%; text-align: center;"> Signature </div> <div style="border: 1px solid black; padding: 5px; width: 30%; text-align: center;"> 4/2/18 Date </div> </div>	
Meets "AP" Requirements? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Meets "Honors" Requirements? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Submitted by: Dian Martin Site: SSC/Ed Services Date: 3/29/2108	Unit Value/Length of Course: <input type="checkbox"/> 0.5 (half year or semester equivalent) <input checked="" type="checkbox"/> 1.0 (one year equivalent) <input type="checkbox"/> 2.0 (two year equivalent) <input type="checkbox"/> Other:	
Approvals	Name/Signature	Date
Director of Curriculum & Instruction		4/9/18
Asst. Superintendent of Educational Services		4/9/18
Governing Board		

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RCOE Public Safety Personnel/First Aid

Riverside County Office of Ed. ROP

Basic Course Information

CBEDS 5810

Title:	RCOE Public Safety Personnel/First Aid
Transcript abbreviations:	
Length of course:	Full Year
Subject area:	College-Preparatory Elective ("g") / Interdisciplinary
UC honors designation?	No
Prerequisites:	Anatomy and Physiology (Recommended) English 1 (Required) Algebra 1 (Required) Biology (Required) Chemistry (Recommended)
Co-requisites:	None (Recommended)
Integrated (Academics / CTE)?	Yes
Grade levels:	11th, 12th
Course learning environment:	Classroom Based

Course Description

Course overview:

Emergency Medical Responder is a year-long academically challenged course that is designed to prepare students for entry level positions into the health care industry. The course takes students on a fascinating journey beginning with history, future, and components of the emergency system, the well-being of the first responders, legal issues, and medical terminology. The course provides students with a comprehensive understanding of anatomy, physiology and pathophysiology of the human body. These concepts are solidifying the foundational knowledge and skills aptitudes for specific medical emergencies and traumas. The course also gives students a genuine context for the application of the knowledge used to help patients in the field. The course begins with the basic knowledge of anatomy and physiology, first-aid, CPR, and safety practices and ends with a thorough understanding of medical emergencies. The course prepares students with the tools of pre-hospital care through understanding of the proper use of medical equipment necessary to provide appropriate care. The competencies in this course are aligned with the Career Technical Education Model Curriculum Standards.

Course content:

Orientation and Introduction to EMS systems

Students will understand and evaluate the responsibilities of an EMR and the components of the Emergency Medical Services (EMS) activation. They will apply fundamental knowledge of the EMS system to the provision of emergency care. The lesson will provide the students with a road map for learning the skill and knowledge domains of the EMS systems. Additionally, students will identify the personal characteristics, time involved, and education required for careers in the medical field. Students will understand, apply, and evaluate classroom and workplace policies and procedures used in accordance with federal, state, and local safety and environmental regulations.

Key Assignment:

- Research Internet sites that focus on information related to the evolution and history of Emergency Medical Services. Write a historical report on the history of Emergency Medical Services reflecting on the evolution of practice within the field of emergency medicine.
- Research Internet sites that focus on information on benefits of Emergency Medical Services and create a brochure that includes five of the benefits of EMS and prepare a class presentation.
- Utilize the Internet and look at the levels of training for pre-hospital care and prepare a multimedia presentation detailing requirements necessary to obtain a certificate for each level of training.
- Read a variety of texts on bias and research cases of bias within the emergency medical field. Students will then reflect on the texts and write a persuasive essay describing why it is inappropriate to judge a patient based on a cultural, gender, age, or socioeconomic model, and to vary the standard of care rendered as a result of that judgment.
- Research the Internet sites that focus on information regarding the role of the EMS and write an essay that characterizes the EMS system's role in prevention and public education in our community.

Objectives:

- Give an overview of the historical events leading to the development of modern EMS System.

- Describe the components of an EMS System that must be in place for a patient to receive emergency Medical Care.
- Compare and contrast the specific area of responsibilities for the EMR, EMT, AEMT, and Paramedic.
- Explains the purpose of the National Registry of Emergency Medical Technicians.
- Provides specific examples of the physical and personality traits that are desirable for the EMR.

The Well Being of The First Responder

Students will understand and evaluate the personal, emotional, and physical safety requirements for an EMR. This unit covers the emotional aspects of emergency medical care, stress management, body substance isolation (BSI), personal protection equipment (PPE), and safety precautions that are required prior to performing the role of an EMR. Students will identify the signs and symptoms of infection and explain the process of inflammation as a defense mechanisms

Key Assignments:

- Read various texts on emotional aspects of emergency care, post-traumatic stress disorder (PTSD) and other affective aspects of emergency medicine. Reflect on the texts and write an essay that describes the emotional aspects of emergency care. Explain the steps that contribute to wellness and their importance in managing stress.
- Infections and varied patient reactions are common in society. After reading several articles on infections and/or inflammatory response, create a multimedia presentation that explains the mode of transmission and the steps necessary to prevent or deal with an exposure to hepatitis, tuberculosis, HIV, or another infectious diseases.
- The primary mode of transmission for the common cold is through poor hand washing hygiene. After touching an object contaminated with the cold virus, the person transfers the virus to the nasal cavity where it causes an infection. Describe other ways in which the virus can get into the nasal cavity.
- Create a chart to illustrate the difference between active and passive immunity. Compare how long active immunity and passive immunity lasts and describe situations where one type of immunity is preferred over the other.
- Create a poster explaining the "Safety First" procedures that health care professionals need to follow in the workplace. The topic can be either "Wash your hands," "The use of gloves," or another instructor-approved procedure that is common to all health care professionals.

Objectives:

- Given an example of a patient care situation, the student will determine the appropriate PPE to aid in the prevention of exposure to infectious disease.
- Describe and demonstrate the proper procedure for hand washing and the utilization of alcohol-based hand cleaners.
- Explain the essential provisions of OSHA, the CDC, the Ryan White CARE Act, and the Ryan White HIV/AIDS Treatment Extension Act of 2009 as they relate to infection control in EMS.
- Outline the proper response to incidents including, Hazardous Materials Incidents, Terrorist Incidents, Rescue Operations, and Violence.

Legal and Ethical Issues

The Legal and Ethical Issues unit will cover the expected roles and responsibilities of the EMR while interacting with the community both on and off duty. Key ideas covered in this unit will include introducing the students to the scope of practice and the standard of care of an EMR while rendering emergency medical care. In addition, the teacher will discuss the duty to act, types of patient consent, the patients right to refusal of care, Do Not Resuscitate advance directives, assisted suicide concerns, and negligence. Through this analysis, students will explore the scope of practice, ethical responsibilities, advance directives, consent, refusals, abandonment, negligence, duty to act, confidentiality, and medical identification insignia in responding to and treating the patient.

Key Assignments:

- Students will write a 500-word essay on the newly adopted CA State Senate Bill 128 (SB 128) that deals with the End of Life procedures. Students will research the bill, and specify the legal and ethical issues that will impact the EMR when responding to a scene for such patients.
- Students will research the HIPPA Act of 1996 and discuss the techniques to ensure patient privacy and the repercussions failing to do so.
- Students will be given a mock crime scene and will outline the steps in preserving evidence and contamination prevention of such.

Anatomy and Physiology of the Human Body

In this unit, students will develop an understanding of human anatomy and physiology preparing them to evaluate recommended treatments, critically review advertisements and reports in the popular literature, and accurately discuss the human body with health professionals. Students will know the structure and function of the human body and understand how the body responds to a stimulus. The anatomy and physiology of the human body will provide students with the basis for understanding the pathophysiology of the disease. This unit serves to introduce the students to the basic functions of living organisms, reviews the concept of homeostasis and introduces positive and negative feedback systems in response to homeostatic regulation. Students will use anatomical terms to describe body sections, body regions, and relative positions. Homeostatic balance, the relationship between structure and function, and the interrelationships between body systems are a focus throughout the chapter.

Key Assignments:

- Write a 300-word essay explaining the body's topographic anatomy. Explain the anatomical position, the directional terms, and the planes of the body.
- Use the Internet to research the importance of dialysis in clients with kidney failure. In 600 - word essay define dialysis, present the types of dialysis, and the importance of the procedure.
- Create a chart and contrast the functions of the sympathetic and parasympathetic divisions of the autonomic nervous system.
- Create a chart with the functions of the digestive system: enzyme, source, and function.
- Create a diagram that shows the digestion of food molecules.

- Create a chart showing the functions of the endocrine system with emphasis on water balance.
- Write a 500-word essay describing the journey of the blood from the heart to the body cells and the return of the blood back to the heart. Create a diagram of the circulatory system and present it to the class.
- Research the Internet and find pertinent information to evaluate the impact of biotechnology on the individual, society and the environment.
- List the hormones secreted by the adrenal gland and write a 450 – word essay describing their functions and comparing the means by which the secretion rate of each is controlled.
- Write a 300 - word essay explaining all the reasons why an elderly patient may have a difficult time walking from the living room to the bedroom.
- Explain the significance of genetic factors, environmental factors, and pathogenic agents to health from the perspectives of both individual and public health.

Objectives:

- Demonstrate the positional and directional terms.
- Identify the body regions and cavities on a lifelike model and label each cavity.
- Recognize the main body parts of each system on a lifelike model and label each part.
- Research the Internet, create a lung by using two balloons, and demonstrate how it functions.
- Demonstrate the ATP muscle contraction and write a 150-word summary of this process.
- Describe the mechanisms by which Na⁺, K⁺, and Ca⁺⁺ are regulated in the extracellular fluid.
- Describe the mechanisms that regulate the body fluid pH function by explaining how they respond to changes in the pH.
- Describe and demonstrate Vitamin D production and summarize the results in 150 words. Use correct grammar, punctuation, and spelling.

Medical Terminology

Students will understand and apply the definitions, abbreviations, symbols, and terminology rules that are used in emergency medical care. They will demonstrate how keyword parts work together to form medical terms and use the many aids to help reinforce the word-building skills while mastering them. Learning medical words is similar to learning a new language. The medical language is logical in that each term, complex or simple, can be broken down into its basic component parts. Students will build medical terms for surgical, diagnostic, and pathological conditions. They will write the meaning of the word parts and use them to build and analyze words.

Key Assignments:

- Use research materials, either text-based or internet-based, to find ten medical terms. Write each term and identify the prefixes, word roots, and suffixes. Give the meaning of each part of the word and the meaning of the medical term. Create a table and fill in the information for the ten words used in the assignment.
- Choose 25 medical terms and create "Jeopardy" like game. Make a poster with 25 squares and place either the medical term or the definition of a medical term in each square. Cover each word with a 3 x 3 card. Another classmate will challenge your words by giving you the definition of the medical term or the medical term the definition on your poster pertains to.

- Use a ring and insert 100 flashcards on the ring. Choose 100 medical words and write them on one side of the flash cards. On the other side write the definition of the medical terms. Choose 5 classmates, form a group and quiz each other by using the flashcards. Share the words with your group.
- Write three sentences describing the client's medical complaints, initially by writing the sentences with the use of common words and then rewriting them with the use of medical terms.

Objectives:

- Define key terms and explain the importance of the proper use of the medical terminology.
- Recognize when it's appropriate to use medical terminology, acronyms, and abbreviations while communicating and documenting patient care reports.
- Identifies anatomical terms of position and direction as it relates to the human body.
- Describes the structures, locations, and functions of each of the named body systems.

Vital Signs and Patient Assessment

To perform an adequate patient assessment, the EMR must be familiar with the normal anatomy of the human body and topographical terminology. This information will provide a solid cornerstone on which the EMR can build the essentials of quality patient assessment and management. Students will understand the clinical protocol in assessing the vital signs. Adequate blood pressure is necessary to maintain proper circulation and perfusion of the vital organ cells. Students will recognize that a decrease in blood pressure may indicate loss of blood, loss of vascular tone, or a cardiac pumping problem. Students will also recognize that an increase in blood pressure may lead to fatal conditions even if the body's defenses act to reduce the elevation.

Sample Key Assignments:

- Write a short 450-word script of what you would tell your patient about the procedure as you begin taking the blood pressure.
- Taking the temperature is a vital procedure but to many patients, it seems a nuisance. Write an essay describing how you would explain to the client that a change in temperature is important.
- Create a chart with the normal blood pressure ranges for adults, children, and infants. Explain the impact an abnormal blood pressure reading can have on the patient's health.
- Define the heart rate and explain what information can be determined from monitoring the pulse. Write a 450-word report describing the changes in the heart rate caused by common diseases.
- Interview someone recovering from an accident and have the person describe how the injury occurred and what their resulting injuries were. Create an emergency action plan. Write the steps of the Emergency Action Plan as if you would have been there when the incident happened.
- In 300 - word essay explain why it is important to keep the evaluation of each client's medical history in mind at all times during the initial and secondary patient assessment.
- Identify the components of the patient assessment process. In 600 words explain how the different causes of emergencies will affect how each step of the patient assessment the EMR will perform. Use correct grammar, punctuation, and spelling.

Objectives :

- Explains the on-going nature of Scene Size Up beyond the initial moments at the scene.

- Explains the purpose of the Primary Assessment, and recognizes findings that would require immediate interventions.
- Identifies the vital signs obtained in the pre-hospital patient assessment.
- Discusses the importance of documentation including trending and changes.
- Demonstrates the ability to obtain a blood pressure, pulse, respiratory rate, lung sounds, O2 saturation, skin vitals, pupillary response and the blood glucose level.

Patient Lifting , Moving, and Positioning

Students will understand that both the patient's condition and the environment in which he/she is found determines how a patient will be moved. The determination of how to move the patient is made by considering the complaint, the severity of the condition and the location. Students will identify, apply, and evaluate techniques used to lift, move, and position patients. This chapter provides students with knowledge of body mechanics, lifting and carrying techniques, and principles of moving patients.

Key Assignments:

- Write 150-word essay describing the reflex response.
- Write a 450-word essay explaining why injury to the spinal cord at level of C6 doesn't significantly interfere with nervous system control of the respiratory system.
- A male patient has suffered a spinal cord injury in a car accident. In your narrative, write how an EMR would properly move and secure the patient and what type of equipment would you need to prevent further injury.
- Based on the definition of the term body mechanics in a 500- word essay describe how following proper patient lifting and moving techniques can help prevent work-related injuries.
- In 300 - words summarize the general considerations required to move patients safely without causing them further harm while simultaneously protecting the EMR from injury.
- Based on the safety rules in a 350-word essay describe the guidelines the EMT should follow when lifting and carrying a patient on a stretcher or backboard and identify how to avoid common mistakes.

Objectives:

- Demonstrate how to measure and apply a Cervical Collar (C – collar).
- Demonstrate spinal immobilization on: long board and short board using proper patient movement.
- Identify and demonstrate lifting techniques using proper body mechanics.
- Identify and demonstrate the steps necessary to: transfer a patient from bed to stretcher and position a patient.
- Give examples of situations that would require emergency, urgent, and non-urgent patient moves.

Airway Management

This chapter addresses airway anatomy and physiology, how to maintain an open airway, pulmonary resuscitation, variations for infants and children, as well as patients with laryngectomies. The use of airways, suction equipment, and barrier devices will help students differentiate between medical equipment required based on the patient's medical condition. Students will recognize and apply the techniques for proper airway management.

Sample Key Assignments:

- Write a 500-word essay describing how ventilation is regulated during exercise and explaining the effect of exercise training on the respiratory system.
- Based on the definition of recovery position in 300 words describe the indications for the use of this position to maintain a clear airway.
- In a 500 - word essay explain the assessment of a patient who is in respiratory distress and the relationship of the assessment findings to patient management and transport decisions.
- Patients with diabetes mellitus who are not being treated with insulin rapidly metabolize lipids and acidic by-products of lipid metabolism will accumulate in the circulatory system. In a 500-word essay describe the effects this has on the ventilation.
- In a 450 – word essay describe the factors that affect the diffusion of gases across the respiratory membrane and give examples of diseases that decrease diffusion by altering these factors.
- In a 300 – word essay describe the pressure changes that causes the air to move into and out of the lungs and explain what causes these pressure changes.
- Write a report that describes the normal mechanisms that adjust for changes in pressure, explains how increased pressure might cause decreased breath sounds and creates a hypothesis of how another common condition might interfere with pressure adjustment.
- In a 350 – word essay explain why hyperventilating before swimming underwater can increase the time spent underwater.

Objectives:

- Describe the anatomy and physiology of the upper and lower airways.
- Describe common pathophysiologic problems leading to airway obstruction.
- Demonstrate the assessment of the airway in a variety of patient scenarios.
- Recognize patients who have an inadequate airway.
- Demonstrate the proper opening of an airway using the head-tilt-chin-lift or jaw-thrust maneuvers.
- Describe the indications, contraindications, and how to properly size and place an oropharyngeal and nasopharyngeal airway.
- Demonstrate the ability to suction patients.
- Identify the differences between the adult and pediatric airway.

Cardiopulmonary Resuscitation (CPR) and Automated External Defibrillator (AED)

Students will understand, apply, and evaluate basic CPR and AED procedures. The lesson provides the EMR with the knowledge and skills of chest compressions and ventilations for adults, children, and infants. Students will acquire skills that will assist them in recognizing and treating a patient in cardiac arrest.

Sample Key Assignments:

- Use the Internet to research available CPR classes locally. Create a poster or flyer describing the importance of CPR and including sign-up information for three locations.
- Write a 600-word essay describing the chain of survival and the importance of performing CPR and using AED when available.
- In a 300 - word essay explain the relationship of age and weight to defibrillation and describe the advantages of using the AED.
- Prepare a 500 - word essay explaining the conditions that may result in a spinal injury following a submersion incident and list the steps for stabilizing a patient with a suspected spinal injury in the water.
- Write a 450 - word essay describing the recovery techniques and resuscitation efforts an EMT may need to follow when managing a patient who has been involved in a submersion incident.

Objectives:

- Demonstrate CPR on manikins: adult, child, and infant. Create a chart listing all the steps necessary to perform CPR on adult, child, and infant.
- Demonstrate the use of the AED on the manikin. Write a 150 – word summary explaining the proper use of the AED.
- Demonstrate the skills necessary to help a choking victim.

Medical EMergencies

Students will recognize, interpret and manage general medical complaints, seizures, altered mental status, environmental emergencies, behavioral emergencies, psychological crisis, and typical patient situations. While it is important for students to make the distinction between different medical emergencies, it is equally important for students to remember that patients may have a combination of medical conditions. Students will understand that some medical emergencies are caused by psychological or behavioral problems. Students will also recognize that emergency situations dynamic and can be very challenging, therefore good preparation is required to provide efficient patient care.

Sample Key Assignments:

- Develop a presentation of a medical condition that can affect adults. Your presentation should include an essay and a poster. The essay should include the following: description of the disease, signs, symptoms, treatment, and research about the frequency of the disease and the description of the population at risk. The poster should show the body system affected by the disease.
- Select and research a chronic disease and write a 600-word essay explaining the potential symptoms and complications.
- Create a chart that includes heat cramps, heat exhaustion, and heat stroke. List five signs, symptoms and treatment for each condition and state the severity.
- Write an essay describing methods to prevent or minimize the effects of extreme environmental conditions.
- Use the Internet sites or library and write a 450-word essay describing the major functions of insulin and glucagon.
- Write a 300 - word essay explaining some age-related considerations when managing a geriatric patient who has diabetes.

- Nitroglycerin is a drug given to people who suffer from chest pain. This drug causes vasodilation of arteries and veins. Construct a chart explaining why dilation of the arteries and veins reduces the amount of work performed by the heart.

Objectives:

- Demonstrate the ability to conduct a patient assessment and administer the proper patient care modalities.
- Perform patient assessment and treatment on a diabetic patient. Differentiate between hyperglycemia and hypoglycemia.
- Compare and contrast between a myocardial infarction and angina pectoris.
- Demonstrate the ability to perform a patient assessment on an altered level of consciousness (ALOC) patient. Rule out the possible causes of the ALOC.
- Identify the different classifications of seizures and their causes
- Explain the load and go criteria for critically ill and injured patients.

Bleeding, Shock, and Soft Tissue Injurie

Students will recognize and apply techniques for different types of bleeding, shock, and soft tissue injuries. The lesson reviews the cardiovascular system, describes the care of the patient with internal and external bleeding, and teaches the management of soft tissue injuries and burns. Techniques of dressing and bandaging wounds will also be taught in this lesson. Students will review the anatomy of the musculoskeletal system. They will present information about injuries of the skeletal system in a professional manner. A review of the anatomy of the nervous system will be done prior to the demonstration of patient care. Students will discuss the injuries to the spine and head, including the mechanism of injury, signs and symptoms of injury, and assessment.

Sample Key Assignments:

- In 450 - word essay describe the function of the immune system. Choose a disease and explain the role of the immune system in the recovery process.
- Write a 300 - word essay describing the characteristics of superficial, partial-thickness, and full-thickness burns.
- In a 600-word essay explain the tissue response and inflammatory response to physical injury.
- Cells are the basic unit of life. Write a 500-word essay describing the structure and function of the cells.

Objectives:

- Demonstrate the proper dressing and bandaging of an extremity.
- Demonstrate the steps in controlling an arterial bleed with the CAT application.
- Demonstrate and list the five steps of RICE procedure for someone with a sprain: rest, ice, compress, elevate.
- Demonstrate proper patient care for the following conditions: sprains and strains.
- Recognition of the types of shock based on the patients presentation and chief complaints.
- Identify the possible injuries based on the location of said findings.

Pregnancy and Childbirth

Students will understand and evaluate childbirth, anatomy of pregnancy, and the stages of labor. Reviews of the anatomical and physiological changes that occur during pregnancy will be major part of the chapter. Throughout the lesson students will demonstrate deliveries and newborn care. Students will describe the structures and functions associated with the reproductive system; as well as, conditions that may cause homeostatic imbalance. The reproductive system ensures the continuity of the species by producing offspring. It also plays essential roles in the development of the structural and functional differences between males and females and influences human behavior. Students will identify the care required during pregnancy, childbirth, and postpartum period.

Sample Key Assignments:

- In a 600-word essay describe the anatomy and function of the reproductive system. Describe complications that can arise during childbirth.
- Birth control pills for women contain estrogen and progesterone compounds. In a 350-Word essay explain how these hormones can prevent pregnancy.
- Write an essay explaining why it is important to keep the evaluation of each pregnant female (physical and medical history) in mind at all times during the imminent labor.
- In a 500 - word essay discuss the female reproductive system. Include the developmental changes that occur during puberty and menopause.
- Writing Assignment: Write a 300 - word essay describing the assessment and management of gynecological emergencies and list the three stages of labor.

Objectives:

- Demonstrate patient assessment for a pregnant woman and document the findings.
- Demonstrate patient care for a woman in labor and write a 150 – word report explaining the findings.
- Demonstrate care for the newborn. Create a brochure to emphasize the required care for a newborn. Include the required vaccinations.
- Calculate APGAR score 1 minute and 5 minutes after birth and explain the condition of the newborn based on the results.
- Demonstrate the formation of sex cell and create a chart for a class presentation.
- Demonstrate the ability to deliver an infant in the pre-hospital setting.

Infants and Children

Pediatric patients have their own set of health-related problems that are unique to their population. Similarly, many problems that are common in adults do not occur in children and vice versa. Students will recognize that children are not small adults and their treatment can be a challenge for healthcare providers. Students will understand the assessment and treatment of infants and children. They will present information concerning anatomical differences in infants and children, and discuss common medical and trauma situations.

Sample Key Assignments:

- Discuss in a 450 – word essay the physical and cognitive developmental stages of an infant. Include signs that may indicate illness and patient assessment considerations when caring for an infant patient.
- Make a presentation of a medical condition that can affect pediatric patients. Your presentation should include an essay and a poster. The essay should include the following: description of the disease, signs, symptoms, treatment, and research about the frequency of the disease. The poster should show the body system affected by the disease.
- Select and research a common chronic disease found in children and write a 600-word essay explaining the potential symptoms and complications.

Objectives:

- Demonstrate initial, focused, detailed, and ongoing assessment for a pediatric patient and create a chart listing all the steps necessary to perform a proper initial, focused, detailed, and ongoing assessment. Present the chart to the class.
- Demonstrate patient care for an infant/child experiencing respiratory problems.
- Demonstrate patient care for an infant/child with altered mental status. Analyze the results and write a short report of the findings.
- Demonstrate care of fever in pediatric patients. Analyze the results and write a short report of the findings.
- Demonstrate care for SIDS. Analyze the results and write a short report of the findings.
- Demonstrate assessment and care for pediatric patients suspected of neglect and abuse (psychological abuse, neglect, sexual abuse and physical abuse)

EMS Operations, Gaining Access, and Hazards on Scene

Students understand, apply, and evaluate access techniques and hazard awareness. The chapter presents an overview of the knowledge needed to function as an EMR in the pre-hospital environment. In addition, it provides the EMR student with an overview of extrication and rescue operations and information on hazardous materials, mass casualty situations, and basic triage. Students will recognize and apply basic disaster medical operations and multi-casualty incident management.

Sample Key Assignments:

- Create a chart and explain the difference between simple access and complex access in vehicle extrication.
- In a few sentences discuss how to ensure safety at the scene of a rescue incident. Include scene size-up and the selection of the proper personal protective equipment.
- In 300 words explain how to perform triage based on a fictitious scenario that involves a mass-casualty incident.

Objectives:

- Demonstrate how to respond to a medical aid.
- Demonstrate how would you gain access to patients in vehicles, buildings, or trapped in wreckage. Create a safety chart to gain access to patients trapped in vehicles and present it to the class.
- Demonstrate extrication of patients using a KED (Kendrick Extrication Device). Create a Power Point presentation explaining the proper use of the KED device.

- Demonstrate the START (Simple Triage and Rapid Treatment) triage criteria for assessing patients in multiple-casualty-incidents.
- Given a description of a hazardous materials incident, identify the safe and danger zones, and the hot, warm and cold zones.
- Describe the principles and features of the Incident Command System.

Academic Proficiency (Writing, speaking, and Mathematics)

Students will understand and apply problem solving, critical thinking, and academic proficiency skills. They will recognize the importance of effective reading, writing, speaking, and computational skills. This chapter will allow students to review the mechanics of grammar such as sentence construction, subject-verb agreement, and punctuation. Students will make observations and use the scientific method to create a hypothesis on several stringent medical issues.

Sample Key Assignments:

- Write a report to a co-worker in which you describe the condition of your client. You will read the report to the class before your co-worker receives the written form of your report.
- Describe two scenarios in which it would be better to present data in either a table or a graph. Create a table and a graph that illustrates your point.
- Your client received a medication prescription for pain. The medication is given in mg per client's weight expressed in kg. Create a math problem that includes conversion to metric system.
- Write a 300-word essay describing two scenarios in which instructions given to clients using a 12-hour clock may be confusing and could put clients at risk. Explain how the use of 24 - hour clock can

Objectives:

- Create a hypothesis from an article in a popular magazine or on the Internet on the benefits of prehospital care. Design an experiment that will test the hypothesis. Write up the experimental design using correct grammar, punctuation, and spelling.
- Being given a set of body temperatures taken at different hours of the day, create a table to organize this data.
- Research the number an employer has (doctors, registered nurses, nurses' aides, physical therapists), change the numbers into percentages, and create a circle graph (pie chart) to show percentages of hospital employees.
- Being given a clinical case write a report about your patient which will include personal information, vital signs, special considerations, medications, and a narrative part describing the patients present complaint and medical history.

Communication and Interpersonal Skills

Understand and apply effective communication skills and professional guidelines. Students will discuss and demonstrate techniques to remove barriers in communication and explain the importance of nonverbal communication such as gestures, facial expressions, posture, body language, and touch. Research will help students identify and analyze factors and strategies to consider for therapeutic communication with patients.

Key Assignments:

- List and describe the elements of effective leadership. Create a chart and compare leadership skills and follower skills.
- Based on the definition of communication, write a 500-word essay showing a dialog between a first responder and a patient by using effective verbal and nonverbal communication.
- Write a 450 - word essay that describes a recent event in which you or someone else did not use good listening skills. Explain what could have been done differently to demonstrate good listening skills.
- Create a chart explaining the special considerations in communicating with older people, children, hearing-impaired patients, visually impaired patients, and non-English-speaking patients.
- Write a 350 - word essay that explains the skills that should be used to communicate with family members, bystanders, people from other agencies, and hospital personnel.

Objectives:

- Demonstrate the techniques of successful cross-cultural communication. Write a 350 – word essay presenting an imaginary dialog between the First Responder and a patient with a different cultural background. Use correct grammar, punctuation and spelling.
- Demonstrate completion of a patient care report (PCR). Fill out a PCR form for a patient suffering from a chosen disease and present the report to the class. Use correct grammar, punctuation and spelling.

Employability Skills

Students will understand and evaluate the skills, knowledge, and attitudes needed to locate, obtain, and maintain employment in healthcare careers. On completion of this unit the students will be able to establish goals for self-improvement and lifelong education/ training and discuss the function of professional healthcare organizations. This unit will help students design sample resumes and cover letters and demonstrate appropriate interviewing techniques.

Sample Key Assignments:

- Interview three employed adults. Ask them about their job, how they found the job, and what advice they have for people trying to enter the field. Also ask for other comments they might have about their career. Ask them about positive and negative experiences related to their job. Create a table and fill in the information gathered.
- Research the Internet sites and calculate the full value of two different jobs by determining the dollar value of the salary, health insurance, paid vacation time, retirement benefits, and life insurance. Make a multimedia presentation of a chart showing the findings and comparing and evaluating which job is best for you.

Course Materials

Textbooks

Title	Author	Publisher	Edition	Website	Primary
Emergency Medical Responder First On Scene	Christopher LaBaudour; David Bergeron	Pearson	10th edition, 2016	www.Personhighered.com	Yes
Medical Terminology: A Living Language	Bonnie F. Fremgen; Suzanne S. Frucht	Pearson	6th Edition, 2016	www.pearsonhighered.com	No

Other

Title	Authors	Date	Course material type	Website
MyBrady Lab Workbook and E-Text	Christopher LaBaudour; David Bergeron	November 5, 2016	Workbook and E-Lab	www.pearsonhighered.com