

Emergency Responder

COURSE OUTLINE - UC

DESCRIPTION:

An Emergency Responder is the first medically trained person to arrive on a scene of an emergency. The Emergency Responder provides care to injured persons, and assists other emergency medical service providers. This course will train students how to recognize emergency situations, maintain personal safety, and provide basic emergency care including CPR and First Aid, prevention of disease transmission, along with an understanding of ethical and legal considerations. This course will prepare students who are interested in a career as a firefighter, law enforcement officer, emergency medical technician, or paramedic. Activities in this course include work-based learning that connects students to industry and the local community.

INFORMATION:

PRE-REQUISITE: Medical Terminology

LENGTH: One Year

SECTOR: Health Science and Medical Technology

PATHWAY: Patient Care

ARTICULATED: Yes

UC A-G APPROVAL: Yes: College-Preparatory Elective (G) / Interdisciplinary

O*NET SOC CODES:

29-2041.00 Emergency Medical Technicians and Paramedics

33-3051.00 Police and Sheriff's Patrol Officers

33-9092.00 Lifeguards, Ski Patrol, and other Recreational Protective Service Providers

53-3011.00 Ambulance Drivers and Attendants

Orientation
<ul style="list-style-type: none"> A. Introduce the course and facilities. B. Discuss the syllabus and major objectives. C. Explain applicable classroom management procedures, the ROP Student Rules of Conduct, and any operational guidelines. D. Review instructor/student expectations. E. Explain enrollment and attendance requirements and procedures. F. Review grading and student evaluation procedures. G. Discuss the community classroom aspect of the program, if applicable. H. Discuss the “next steps” related to additional education, training, and employment. I. Review classroom safety, emergency, and disaster procedures.
1. Communication Skills
<ul style="list-style-type: none"> A. Demonstrate positive verbal communication skills using appropriate vocabulary, demeanor, and vocal tone in the classroom and/or worksite. B. Read and interpret written information and directions. C. Practice various forms of written communication appropriate to the occupation. D. Practice positive body language skills. E. Practice professional verbal skills for resolving a conflict. F. Demonstrate active listening skills including techniques for checking for understanding, and for obtaining clarification of directions.
2. Interpersonal Skills
<ul style="list-style-type: none"> A. Demonstrate positive teamwork skills by contributing to a group effort. B. Practice the importance of diversity awareness and sensitivity in the workplace. C. Define sexual harassment in the workplace and identify the employee’s role and responsibility. D. Practice participation skills. E. Identify different personality types and strategies for working effectively with each type. F. Practice business and social etiquette skills appropriate to the occupation. G. Discuss the role of business and personal ethics in the decision-making process. H. Evaluate various job-related scenarios and justify decisions based on ethics. I. Demonstrate flexibility and adaptability in working with others. J. Demonstrate the use of time management skills.
3. Employability Skills
<ul style="list-style-type: none"> A. Demonstrate appropriate attendance and punctuality practices for the classroom and worksite, if applicable.

- B. Prepare a resume, cover letter, and job application forms.
- C. Demonstrate interviewing techniques using appropriate tone and body language.
- D. Demonstrate appropriate dress and grooming standards in seeking employment and for the workplace.
- E. Identify strategies for employment retention.
- F. Analyze the impact of social networking on employability.
- G. Identify the need for continuing education, professional development, and professional growth in chosen field.
- H. Identify appropriate procedures for leaving a job.
- I. Identify sources of job information, including electronic sources.
- J. Review company policies and current trends in employee compatibility screening, drug screening, and background checks.

4. Leadership

- A. Define leadership and identify the responsibilities, competencies, and behaviors of successful leaders.
- B. Work with peers to promote divergent and creative perspectives.
- C. Demonstrate how to organize and structure work, individually and in teams, for effective performance and the attainment of goals.
- D. Explain multiple approaches to conflict resolution and their appropriateness for a variety of situations in the workplace.
- E. Employ ethical behaviors and actions that positively influence others.
- F. Use a variety of means to positively impact the direction and actions of a team or organization.
- G. Analyze the short-term and long-term effects a leader's actions and attitudes can have on productivity, morale, and organizational culture.

5. Personal and Occupational Safety

- A. Demonstrate procedures to be followed in the case of emergencies.
- B. Discuss ways to report a potential safety hazard to a supervisor.
- C. Identify and discuss cyber ethics, cyber safety, and cyber security.
- D. Demonstrate the use of Body Substance Isolation (BSI)/Standard/Universal precautions.
- E. Demonstrate proper hand washing.
- F. Demonstrate proper gloving and glove removal.
- G. Identify and demonstrate the use of personal protective equipment (PPE).
- H. Demonstrate the proper disposal of biohazardous waste and materials.
- I. Apply personal safety practices to and from the job.
- J. Describe the procedure for reporting a work-related hazard or injury.
- K. Recognize the effects of substance abuse in the workplace.
- L. Identify common blood borne pathogens and methods for prevention.

6. Emergency Medical System (EMS)
<ul style="list-style-type: none"> A. Examine the levels of EMS training and licensure. B. Explain the importance of continuing education/professional development. C. Describe the elements of an EMS system. D. Describe the role of public health resources. E. Explain the background and development of the EMS system.
7. The Role of an Emergency Responder
<ul style="list-style-type: none"> A. Describe the role of an Emergency Responder. B. Explain the scope of practice for an Emergency Responder in various situations. C. Identify medical and non-medical equipment needed when responding to a call. D. Demonstrate methods for helping various types of patients (e.g., elderly, chronic care, disabled, hearing/visually impaired, non-English speaking, developmentally disabled, behavioral, etc.).
8. Legal and Ethical Issues
<ul style="list-style-type: none"> A. Define confidentiality, HIPAA, and ethical aspects of confidentiality. B. Define “duty to act” as it applies to an Emergency Responder. C. Identify the need for and types of consent necessary to provide emergency medical services. D. Explain the importance of crime scene preservation and working with law enforcement. E. Describe the ethical responsibilities of an Emergency Responder. F. Describe the medical-legal responsibilities in suspected abuse cases. G. Explain the “Good Samaritan” law and how it applies to various professions. H. Explain the importance of Do Not Resuscitate (DNR) and advanced directives.
9. Communication and Documentation
<ul style="list-style-type: none"> A. Explain the importance of accurate documentation. B. Identify the information required in a patient care report. C. Explain the emotional reactions that may be experienced by Emergency Responders, patients, family, and bystanders when faced with an emergency situation. D. Describe the importance of understanding the response to death and dying and communicating effectively with the patient’s family. E. Identify methods for overcoming common barriers in communication during an emergency.

10. Anatomy and Medical Terminology

- A. Demonstrate the ability to use medical terms in their proper context.
- B. Identify the function and location of the major body organs.
- C. Identify common medical abbreviations.
- D. List the major body systems and give general functions of each: Integumentary, Muscular, Skeletal, Nervous (including senses), Cardiovascular, Endocrine, Lymphatic, Immune, Respiratory, Gastrointestinal, Urinary, and Reproductive.
- E. List and define basic word elements related to anatomy and physiology.
- F. Define anatomical directional terms.

11. Surveying the Scene

- A. Identify common safety and health hazards encountered by the Emergency Responder and methods of prevention.
- B. Demonstrate the proper method for assessing a scene.
- C. Summarize the components of basic triage.
- D. Explain the purpose of prioritizing a client for care and transport.
- E. Explain the key principles and structure of an Incident Command System (ICS).
- F. Identify the difference between medical emergencies and non-emergencies.
- G. Describe the appropriate use of extraction.

12. Patient Assessment

- A. Demonstrate the process used to check a patient's responsiveness.
- B. Demonstrate the proper steps for performing a patient assessment.
- C. Demonstrate the procedures for assessing airway, breathing, and circulation on an infant, child, and adult.
- D. Differentiate between normal and abnormal vital signs.
- E. Demonstrate the proper procedure for measuring and recording a patient's temperature, pulse, and respiration rate.
- F. Demonstrate the proper procedure for measuring and recording a patient's blood pressure, both digitally and manually.
- G. Demonstrate the proper procedure for measuring and recording a patient's pain scale.
- H. Describe the components of an on-going patient assessment.
- I. Differentiate between a sign and a symptom.
- J. Explain the purpose of a primary and secondary patient assessment.
- K. Explain the importance of obtaining a patient's medical history.
- L. Identify the five vital signs and the body systems measured by each.
- M. Identify signs and symptoms of abuse.
- N. Identify concerns when assessing and treating geriatric patients.

13. Lifting and Moving Patients

- A. Describe the components of good body mechanics.
- B. Demonstrate the steps needed to perform patient drags.
- C. Demonstrate various methods for carrying non ambulatory patients.
- D. Demonstrate methods for performing walking assists for ambulatory patients.
- E. Demonstrate the procedures for moving patients with suspected spinal injuries.
- F. Explain the purpose and indications for use of the recovery position.
- G. Utilize equipment commonly used in moving patients.

14. Medical Emergencies

- A. Identify causes, signs, symptoms, and treatment of anaphylaxis.
- B. Describe the causes, signs, and symptoms of common cardiac emergencies.
- C. Describe the causes, signs, and symptoms of emergencies related to diabetes.
- D. Identify causes, signs, symptoms, and treatment for common medical emergencies.
- E. Identify causes, signs, symptoms, and treatment for patients who have been exposed to poison.
- F. Identify causes, signs, symptoms, and treatment for patients with possible drug overdoses.
- G. Identify causes, signs, symptoms, and treatment for common emergencies related to the nervous system (e.g., seizures, loss of consciousness, mental confusion, etc.).
- H. Identify causes, signs, symptoms, and treatment for common respiratory emergencies.

15. Trauma Emergencies

- A. List the signs, symptoms, and treatment for shock.
- B. Demonstrate emergency care for external bleeding.
- C. Explain the emergency medical treatment for various types and locations of wounds.
- D. Demonstrate the emergency medical care used for a patient with an impaled object.
- E. Demonstrate the emergency medical care used for an amputation.
- F. Demonstrate the emergency medical care used for a penetrating chest injury.
- G. Identify causes and treatment for various types of burns.
- H. Differentiate between arterial, venous, and capillary bleeding.
- I. List the signs, symptoms, and treatment for internal bleeding.
- J. Describe the emergency medical care used to treat a soft tissue injury.
- K. Describe the causes, signs, symptoms, and treatment for common trauma emergencies.

16. Cardiovascular and Respiratory Emergencies

- A. Describe common medical emergencies related to the cardiovascular system.
- B. Identify signs and symptoms of respiratory distress.
- C. Demonstrate proper rescue breathing techniques including, mouth to mask, mouth to barrier, and bag valve mask (BVM).
- D. Demonstrate the appropriate use of supplemental oxygen.
- E. Explain the difference in signs and symptoms between a partial and complete airway obstruction.
- F. Perform the steps used in the removal of a foreign body airway obstruction in an infant, child, and adult.
- G. Describe the anatomy and function of the circulatory system.
- H. Distinguish major structures and functions of the respiratory system.
- I. Identify differences in the respiratory systems of infants, children, and adults.
- J. Identify equipment commonly used for artificial ventilation.

17. Cardiopulmonary Resuscitation

- A. Demonstrate the proper procedures used in one and two person CPR for infants, children, and adults.
- B. Pass a CPR exam with an 80% or higher. **
- C. List the links in the chain of survival.
- D. Explain the importance of early access to an AED.
- E. Demonstrate the procedures for using an AED.
- F. Identify common situations that may require the use of CPR.
- G. Discuss moral and legal implications for performing first aid and CPR.

**Completion of unit does not include CPR card or certification

18. Behavioral and Mental Health Emergencies

- A. Demonstrate safety precautions when dealing with potentially violent patients.
- B. Identify techniques to safely restrain a patient with behavioral problems.
- C. Describe the principles for assessing patients experiencing a behavioral emergency.
- D. Define a 5150 and explain how it applies to patient care.

19. Musculoskeletal Injuries

- A. Demonstrate splinting techniques.
- B. Assess and treat a patient with a suspected spinal injury.
- C. Differentiate between a fracture, dislocation, and sprain.
- D. Evaluate the pulse, motor, sensation, and circulation (PMSC) of a patient with an extremity injury.
- E. Demonstrate the assessment and management of a patient with a suspected head injury.

- F. Describe the anatomy and function of the muscular system.
- G. Describe the anatomy and function of the skeletal system.
- H. Identify common causes and prevention for musculoskeletal injuries.

20. Childbirth

- A. Explain the stages of labor and delivery.
- B. List the steps taken to prepare a pregnant woman for delivery.
- C. Describe the methods used to assist during child birth.
- D. Describe the necessary care of the mother and newborn pre and post-delivery.
- E. Identify possible complications that can occur during childbirth.

21. Pediatric Emergencies

- A. Identify common pediatric emergencies.
- B. Explain the steps that should be taken to care for a child who has signs of abuse or sexual assault.
- C. Demonstrate how to determine an infant and child's pulse rate, respiratory rate, and body temperature.
- D. Describe methods used for cooling an infant and child with a high fever.
- E. Identify methods to prevent pediatric emergencies and injuries.

22. Environmental Emergencies

- A. Identify the signs, symptoms, and treatment of cold exposure.
- B. Identify the signs, symptoms, and treatment of heat exposure.
- C. Identify the signs, symptoms, and treatment of common bites and stings.
- D. Identify the signs, symptoms, and treatment of drowning or near-drowning.

23. Hazardous Materials

- A. Explain the role of the Emergency Responder at a hazardous materials incident.
- B. Describe the common signs of a potential hazardous materials incident.
- C. Explain the purpose of the cold, warm, and hot zones at a hazardous materials incident.
- D. Identify and manage common hazards at a simulated emergency response.
- E. Demonstrate the process for proper cleaning and decontamination of equipment.
- F. Utilize the *Emergency Response Guidebook* to identify a suspected hazardous material.
- G. Identify the different levels of PPE used in hazardous situations.

Key Assignments

Assignment	Competencies	Career Ready Practices	Anchor Standards	Pathway Standards	CCSS
1. Students will participate in mock interviews that represent current industry practices (e.g., skills demonstrations, resumes, applications, portfolios, personal websites, etc.).	1A, B, D 3B, C, D, I, J	2 3 10	2 3		LS 11-12.6 SLS 11-12.2
2. Students will debate the legal and ethical implications of decisions made in patient care including how a medical provider or patient's personal belief system may impact the patient.	1A, D-F 4B 8A-D,G,H	1 2 5	2 4 8	B6.0 B13.0	LS 11-12.3 LS 11-12.6 SLS 11-12.1 SLS 11-12.2
3. Students will accurately complete medical reports and documentation for various medical and/or trauma situations.	1C 4C 9A,B,F	1 2	2	B5.0 B6.0	LS 11-12.1-2 RLST 11-12.4 WS11-12.7
4. Students will demonstrate the skills necessary to complete the National Registry Emergency Medical Responder/EMT skills sheets through participation in multiple scenarios.	4C 8D 9A,C,E 10A,B,F 11A-F 12A-N 13A-G 14A-G 15A-J 16A-F 17.A,E 18A-C 19A,B,F,G,H 21A-D 22.A-C	1 2 5	2 5 10	B7.0 B8.0 B9.0	SLS 11-12.1
5. Students will demonstrate the proper procedures as a first	4C 5A	1 2	2 5	B7.0 B8.0	LS 11-12.6 SLS 11-12.1b

Assignment	Competencies	Career Ready Practices	Anchor Standards	Pathway Standards	CCSS
<p>responder in securing a crime scene, including preservation of evidence, patient care, and documentation.</p>	8E,F,I 9A-F 11A-F 12A-N 13A-G 14A-G 15A-J 17.A,E,F,H 18A-D 19A,B,F,G,H 20A-D 21A-D 22.A-C 23.A,C-D	5 8	8 9 10 11	B9.0	WS 11-12.7
<p>6. Students will demonstrate the proper procedures for patient care, documentation, and scene surveillance in a mock emergency situation that includes various degrees of medical distress and/or trauma.</p>	4C 11A-F 12A,-N 13A-G 14A-G 15A-J 16A-F 17.A,E,F,H 18A-D 19A,B,F,G,H 20A-D 21A-D 22.A-C 23.A,C-D	1 2 5	2 5 9 10	B7.0 B8.0 B10.0 B12.0	LS 11-12.6 SLS 11-12.1b WS 11-12.7

Assignment	Competencies	Career Ready Practices	Anchor Standards	Pathway Standards	CCSS
<p>7. Students will respond to a multiple victim accident that includes patients of varying ages and medical conditions, including pregnancy and pediatric scenarios.</p>	<p>4C 11A-F 12A-N 13A-G 14A-G 15A-J 16A-F 17.A,E,F,H 18A-D 19A,B,F,G,H 20A-D 21A-D 22.A-C 23.A,C-D</p>	<p>1 2 5</p>	<p>2 5 9 10</p>	<p>B7.0 B8.0 B10.0 B12.0</p>	<p>LS 11-12.6 SLS 11-12.1b WS 11-12.7</p>

Standards Assessed in this Program

Career Ready Practices

1. Apply appropriate technical skills and academic knowledge.
2. Communicate clearly, effectively, and with reason.
3. Develop an education and career plan aligned to personal goals.
4. Apply technology to enhance productivity.
5. Utilize critical thinking to make sense of problems and persevere in solving them.
6. Practice personal health and understand financial well-being.
7. Act as a responsible citizen in the workplace and the community.
8. Model integrity, ethical leadership, and effective management.
9. Work productively in teams while integrating cultural/global competence.
10. Demonstrate creativity and innovation.
11. Employ valid and reliable research strategies.
12. Understand the environmental, social, and economic impacts of decisions.

Anchor Standards

2.0 Communications

- Acquire and use accurately sector terminology and protocols at the career and college readiness level for communicating effectively in oral, written, and multimedia formats.

3.0 Career Planning and Management

- Integrate multiple sources of career information from diverse formats to make informed career decisions, solve problems, and manage personal career plans.

4.0 Technology

- Use existing and emerging technology, to investigate, research, and produce products and services, including new information, as required in the sector workplace environment.

5.0 Problem Solving and Critical Thinking

- Conduct short, as well as more sustained, research to create alternative solutions to answer a question or solve a problem unique to the sector using critical and creative thinking, logical reasoning, analysis, inquiry, and problem-solving techniques.

6.0 Health and Safety

- Demonstrate health and safety procedures, regulations, and personal health practices and determine the meaning of symbols, key terms, and domain-specific words and phrases as related to the sector workplace environment.

7.0 Responsibility and Flexibility

- Initiate, and participate in, a range of collaborations demonstrating behaviors that reflect personal and professional responsibility, flexibility, and respect in the sector workplace environment and community settings.

8.0 Ethics and Legal Responsibilities

- Practice professional, ethical, and legal behavior, responding thoughtfully to diverse perspectives and resolving contradictions when possible, consistent with applicable laws, regulations, and organizational norms.

9.0 Leadership and Teamwork

- Work with peers to promote divergent and creative perspectives, effective leadership, group dynamics, team and individual decision making, benefits of workforce diversity, and conflict resolution.

10.0 Technical Knowledge and Skills

- Apply essential technical knowledge and skills common to all pathways in the sector following procedures when carrying out experiments or performing technical tasks.

Pathway Standards

Health Science and Medical Technology – Patient Care

B5.0 Know the definition, spelling, pronunciation, and use of appropriate terminology in the healthcare setting.

B6.0 Communicate procedures and goals to patients using various communication strategies to respond to questions and concerns.

B7.0 Apply observation techniques to detect changes in the health status of patients.

B8.0 Demonstrate the principles of body mechanics as they apply to the positioning, transferring, and transportation of patients.

B9.0 Implement wellness strategies for the prevention of injury and disease.

B10.0 Comply with protocols and preventative health practices necessary to maintain a safe and healthy environment for patients, healthcare workers, coworkers, and self within the healthcare setting.

B12.0 Adhere to the roles and responsibilities, within the scope of practice, that contribute to the design and implementation of treatment planning.

B13.0 Research factors that define cultural differences between and among different ethnic, racial, and cultural groups and special populations.

Common Core State Standards

ENGLISH LANGUAGE ARTS

Language Standards

LS 11-12.2: Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.

LS 11-12.3: Apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to comprehend more fully when reading or listening.

LS 11-12.6: Acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the (career and college) readiness level, demonstrate independence in gathering vocabulary knowledge when considering a word or phrase important to comprehension or expression.

Reading Standards for Literacy in Science and Technical Subjects

RLST 11-12.4: Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context.

Speaking and Listening Standards

SLS 11-12.1: Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners, building on others ideas and expressing their own clearly and persuasively.

SLS 11-12.1b: Work with peers to promote civil, democratic discussions and decision-making, set clear goals and deadlines, and establish individual roles as needed.

SLS 11-12.1d: Respond thoughtfully to diverse perspectives, synthesize comments, claims and evidence made on all sides of an issue, resolve contradictions when possible, and determine what additional information or research is required to deepen the investigation or complete the work.

SLS 11-12.2: Integrate multiple sources of information presented in diverse formats and media (e.g., visually, quantitatively, orally) in order to make informed decisions, and solve problems, evaluating the credibility and accuracy of each source and noting any discrepancies among the data.

Writing Standards

WS 11-12.6: Use technology, including the Internet, to produce, publish, and update individual or shared writing products in response to ongoing feedback including new arguments and information.

WS 11-12.7: Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem, narrow or broaden the inquiry when appropriate, synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation.