

Course Code: EMS 113

Course Title: Paramedic I

Department: Allied Health

Effective Date: Summer 2026

PCS Code: 1.2 - Occupational/Technical Instruction

CIP Code: 51.0904

Repeatability: 0

Credit Hours

Catalog Notation: 5.5-7.5-8

Credit Hour Distribution:

Lecture: 5.5

Lab: 3

Clinical: 4.5

Total: 8

General Course Information

Catalog Description

Occupation, history, and leadership skills. Assessment/management: accident scene, growth and development, and airway. Identify medical, legal, and ethical issues. Advanced pathophysiology, cellular growth/adaptation, fluid balance, and body responses to illness/accidents. Pharmacology and intravenous therapy. Community education.

General Course Objectives

Introduction to the pathophysiological responses seen in illness and accidents and the impact of pharmacological intervention, and airway management.

Minimum Placement Levels

English	Reading	Math
Placement into ENG 098	Placement into CCS 098	Placement into MAT 060

Prerequisites

Credit in EMS 111

Approval of program director or department chair

Methods of Evaluation

15-20 quizzes; 2-4 hours of community service; 10-20 demonstrations of skills; 3-5 objective exams; 3-5 practical exams.

Instructional Materials and Additional Supplies

Current edition of assigned textbook with online platform.

Course Content

General Learning Outcomes (GLOs)

- Communication: Students will demonstrate the ability to read, write, listen, and speak effectively.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Introduction to Emergency Medical System	1. Define EMS. List four occupations in the EMS. 2. Describe the history of EMS.	4	0	0
Roles and Responsibilities	1. List leadership expectations. 2. Identify delegation protocol. 3. Demonstrate Public Education topics. 4. Collect data and research on issues of EMS.	2	2	0
Health of the EMT	1. Identify physical, emotional, spiritual wellness of a Paramedic. 2. Describe nutritional needs of a Paramedic. Explain shift work differences. 3. List Health-Wellness Risk Factors. 4. Demonstrate proper lifting/moving skills.	3	2	0
Accident Scene	1. Determine safety concerns at an accident scene. 2. Describe responses to death and dying. 3. List stress management methods. Review BST.	4	0	0
Illness and Injury Prevention	1. List epidemiology of common illnesses. 2. Determine reasons why cultural diversity affects different responses to an illness. 3. Demonstrate community health education topics.	1	2	0
Community Prevention	1. Identify common preventable diseases. 2. List community hazards. 3. Explain common crime scenes. 4. Demonstrate community crime prevention topic.	1	2	0
Therapeutic Communication	1. Determine age-specific communication skills. 2. Demonstrate skills necessary for age-specific communication skills. 3. List cultural differences and commonalities. 4. Demonstrate skills necessary to communicate with persons from various cultures.	3	2	0
HIPAA	1. Define HIPAA. Identify examples of a breach in HIPAA. 2. List enforcement policies and procedures.	1	0	0
Growth and Development across the Life Span	1. Describe and identify cognitive and physical development differences in the life span: neonate to geriatric. 2. Demonstrate skills necessary to treat all development differences in the life span: neonate to geriatric. 3. Construct and demonstrate skills necessary to treat all development differences in the life span: neonate to geriatric.	3.5	2	1
Medical/Legal/Ethical Issues	1. Identify the current medical, legal, and ethical issues an EMT-Paramedic will be involved with while administering to the sick or injured. 2. Research a case study relating to the medical, legal, and/or ethical concerns in health care.	4	0	0
Pathophysiology	1. Describe basic pathophysiology for the body systems.	4	0	0

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Hypoperfusion	1. Describe and define hypoperfusion. 2. List/identify hypoperfusion diagnostic and treatment modalities. 3. Reproduce diagnostic and treatment modalities of hypoperfusion. 4. Construct a treatment plan for diagnostic and treatment modalities of hypoperfusion.	4	2	3
Advanced Fluids and Electrolytes	1. Examine and identify all of the types of solutions carried on ALS units. 2. Demonstrate filling the different types of IV tubing carried on ALS units. 3. Demonstrate setting drip rates on each type of tubing. 4. Determine a person's weight and convert the weight into kilograms. 5. List medical incidents that disrupt acid/base balance.	0	2	3
Body Defenses	1. Identify the human body defenses to disease, illness, or accidents. 2. Identify body inflammatory responses.	4	0	0
Diseases: Causation	1. List genetic reasons for diseases. 2. Identify risk factors contributing to diseases. 3. List body responses to diseases.	3	0	0
Advanced Pharmacology	1. Identify correct usage and route for ALS pharmacological agents. 2. Describe proper disposal of pharmacological agents. 3. Reproduce and categorize 8 1/2 x 5 inch index cards for ALS medications. 4. Mix, measure, and administer ALS medication based on a patient's weight in kilograms.	1	1	4
Advanced Medical Mathematics	1. Calculate (compute) the appropriate medication amounts to give in various scenarios using the formula provided. 2. Measure to determine advanced drug calculations, conversions, and calibrate drip rates and mixtures. 3. Formulate advanced drug calculations, conversions, drip rates, and mixtures.	2	2	4
Medication Administration	1. Describe and demonstrate all forms of medication administration: topical, oral, ophthalmic, otic, Intradermal, Subcutaneous, Intramuscular, Intravenous. 2. Measure accurate dosages and administration for all forms of medication administration: topical, oral, ophthalmic, otic, Intradermal, Subcutaneous, Intramuscular, Intravenous. 3. Review and follow the six patient rights of medication administration.	3	1	4
Vascular Access	1. Identify safe IV and IO skills: Intravenous, arterial line, Pic-line, subclavian line, and blood sample skills. 2. Demonstrate administering medications in a variety of settings. 3. Assemble and demonstrate preparing IV tubing for patient use. 4. Demonstrate IV insertions on manikins. 5. Assemble and demonstrate IV insertions of 20 ga catheters on each other. 6. Demonstrate IO insertions on a manikin.	4	4	8
Airway Management	1. Identify advanced airway anatomy and physiology. 2. Describe pathophysiology of advanced airway systems. 3. Identify and demonstrate proper procedure for airway assessment. 4. Identify breath sounds and variations. 5. Accurately follow procedures and demonstrate listening to breath sounds.	3	4	5.5

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Basic Airway Adjunct	1. Describe suctioning techniques. 2. Identify gastric distention. 3. Accurately follow treatment procedures and assemble equipment for effective treatment of gastric distention.	3	1	4
Advanced Airway Management	1. Identify and demonstrate oral intubation management. 2. Identify and demonstrate digital intubation. 3. Identify and demonstrate nasal intubation. 4. Identify and demonstrate surgical airway procedures. 5. Accurately follow treatment procedures and assemble equipment for effective treatment for airway management. 6. Outline indications, contraindications, and complications of each technique. 7. Describe use of the ventilators.	3	4	8
Lifting and Moving	1. Outline the anatomy and physiology of the back, stressing its vulnerability for injury by watching the first half of the Injury Free Video. 2. List the rules of lifting, carrying, reaching, pushing, pulling, and sitting. 3. Construct and describe ways to maintain a healthy back as an EMS provider.	1	1	1
Patient Assessment History Taking	1. List techniques useful in obtaining a patient history. 2. Construct and demonstrate history taking techniques in both simulation and on live patients.	4	1	3
Patient Assessment Techniques	1. Describe techniques used in performing head to toe patient assessment. 2. Demonstrate the use of assessment tools such as the stethoscope, ophthalmoscope, and percussion hammer. 3. Demonstrate ability to accurately measure results found in patient assessment techniques of inspection, auscultation, percussion, and palpation.	3	1	3
Patient Assessment: Medical	1. List the critical steps in the assessment of medical patients. 2. Identify tools required to perform a complete assessment of the medical patient. 3. Demonstrate ability to accurately measure results found in assessment of a medical patient in a variety of scenarios.	3	1	5
Patient Assessment: Trauma	1. List and describe the critical steps in the assessment of the trauma patient. 2. Identify and demonstrate tools required to perform a complete assessment of the medical patient. 3. Demonstrate ability to accurately measure results found in the assessment of the trauma patient using a variety of scenarios.	3	1	5
Clinical Decision Making	1. Identify critical thinking processes used in providing patient care using scenarios and other exercises.	3	1	0
Radio Communication	1. Identify proper radio communication procedures. 2. Demonstrate good radio communications using a variety of scenarios. 3. List the steps in delivering a radio report. 4. Combine the techniques of good patient assessment and preparation into a detailed radio report.	2	1	3
Documentation	1. Identify proper documentation included in a patient care report. 2. Demonstrate good interpersonal communication skills using a variety of scenarios. 3. Organize the information and the steps in writing a patient care report. 4. Construct and demonstrate the techniques of good patient assessment and preparation of a patient care report.	3	1	3

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Practical exam of patient assessment, radio communication, and documentation	1. Construct and modify as needed the practical skills in patient assessment, radio communication, general patient care, and documentation.	0	4	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
82.5	45	67.5