

COURSE SYLLABUS

LAST REVIEW	Spring 2021
COURSE TITLE	Paramedic Concepts I
COURSE NUMBER	PMED 0227
DIVISION	Health Professions
DEPARTMENT	Paramedic
CIP CODE	51.0904
CREDIT HOURS	8
CONTACT HOURS/WEEK	Class/Lab: 9
PREREQUISITES	BIOL 0143 OR BIOL 0141 AND BIOL 0271 MATH 0104
COURSE PLACEMENT	This course is part of a selective admission program. Students must be admitted to the Paramedic program to enroll in this course.

COURSE DESCRIPTION

The didactic content of this course is designed to serve as a general framework for the implementation of the objectives of the paramedic curriculum. The roles and responsibilities of the Paramedic will be discussed from a legal, practical, and philosophical point of view. The paramedic should be well versed in the legalities of emergency medical care. Practical considerations will be addressed. This section will also provide the paramedic student with an overview of the EMS system and its components/relationships. Rescue techniques and extrication, as well as emergency vehicle operations will be addressed. A section is devoted to the practical and mental response to a major incident including planning phases and triage. Additionally, sections on stress response and management, anatomy and physiology for the paramedic, basic pharmacology for the paramedic, and trauma and burns are also included. These sections familiarize the paramedic with such items as the causes and manifestations of stress in others and themselves, a working knowledge of normal body anatomy and physiologic processes, an introduction to the basic principles of pharmacology, and the medications used in the pre-hospital setting and how to handle trauma and burn cases.

PROGRAM LEARNING OUTCOMES

1. Perform Basic Life Support and Advanced Life Support skills.
2. Communicate effectively orally and in writing across a diverse set of situations and cultures and with individuals, teams and large groups.
3. Demonstrate effective analytical and critical thinking skills to make appropriate decisions in critical and non-critical situations.
4. Analyze ethical problems that occur in Emergency Medical Services to implement practical resolutions.

TEXTBOOKS

<http://kckccbbookstore.com/>

METHODS OF INSTRUCTION

A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE

Per DOT National Standard Curriculum and Kansas Board of EMS requirements the following topics will be explored:

- I. Introduction to Advanced Pre-Hospital Care
 - A. Description of profession
 - B. Paramedic characteristics
- II. Wellbeing of the Paramedic
- III. EMS Systems
 - A. History of EMS
 - B. Today's EMS Systems
- IV. Roles and Responsibilities
 - A. Primary responsibilities
 - B. Professionalism
 - C. Basic physical fitness
 - D. Death and dying
- V. Injury and Illness Prevention
 - A. Epidemiology
 - B. Prevention within EMS
 - C. Prevention in the community

- VI. Medical/Legal Issues
 - A. Legal Duties
 - B. Legal accountability
 - C. Resuscitation issues
- VII. Ethics
 - A. Overview
 - B. Ethical issues in contemporary practice
- VIII. Pathophysiology
 - A. General principles
 - B. Fluids and fluid imbalance
 - C. Acid-base derangements
 - D. Genetic causes of disease
 - E. Hypoperfusion
- IX. Pharmacology
 - A. Basic Pharmacology
 - B. Drug Classifications
- X. Medication Administration
 - A. Principles and routes of administration
 - B. IV access, blood sampling and IO infusions
 - C. Medical math
- XI. Therapeutic Communications
 - A. Basic elements of communications
 - B. Communication techniques
- XII. Life Span Development
 - A. Introduction
 - B. Stages and characteristics of development
- XIII. Airway Management and Ventilation
 - A. Respiratory problems
 - B. Respiratory system assessment
 - C. Basic airway management
 - D. Advanced airway management
 - E. Oxygenation and ventilation
- XIV. History Taking
 - A. Establishing rapport
 - B. Comprehensive patient history
 - C. Special challenges

- XV. Physical Examination Techniques
 - A. Approach and overview
 - B. Overview of a comprehensive examination
 - C. Anatomical regions
 - D. Physical exam of infants and children
 - E. Recording exam findings
- XVI. Clinical Decision-Making
 - A. Clinical judgment
 - B. Paramedic practice
 - C. Critical thinking skills
 - D. Critical decision process
- XVII. Communications
 - A. Verbal communication
 - B. Written communication
 - C. EMS response
 - D. Communication technology
 - E. Reporting procedures
- XVIII. Documentation
 - A. Uses for documentation
 - B. General considerations
 - C. Elements of good documentation
 - D. Narrative writing

COURSE LEARNING OUTCOMES

Upon successful completion of this course, the student will:

- A. Describe key historical events that influenced the development of national Emergency Medical Services (EMS) systems.
- B. Describe how professionalism applies to the paramedic while on and off duty.
- C. List the primary and additional responsibilities of paramedics.

ASSESSMENT OF COURSE LEARNING OUTCOMES

Student progress is evaluated through both formative and summative assessment methods. Specific details may be found in the instructor's course information document.

COLLEGE POLICIES AND PROCEDURES

Student Handbook

<https://www.kckcc.edu/files/docs/student-resources/student-handbook-and-code-of-conduct.pdf>

College Catalog

<https://www.kckcc.edu/academics/catalog/index.html>

College Policies and Statements

<https://www.kckcc.edu/about/policies-statements/index.html>

Accessibility and Accommodations

<https://www.kckcc.edu/academics/resources/student-accessibility-support-services/index.html>.