

# COURSE SYLLABUS

<b>LAST REVIEW</b>	Spring 2021
<b>COURSE TITLE</b>	Paramedic Concepts – Medical Emergencies
<b>COURSE NUMBER</b>	PMED 0260
<b>DIVISION</b>	Health Professions
<b>DEPARTMENT</b>	Emergency Medical Education
<b>CIP CODE</b>	51.0904
<b>CREDIT HOURS</b>	4
<b>CONTACT HOURS/WEEK</b>	Class/Lab: 9
<b>PREREQUISITES</b>	PMED 0228
<b>COURSE PLACEMENT</b>	This course is part of a selective admission program. Students must be admitted to the Paramedic program to enroll in this course.

## COURSE DESCRIPTION

In this course the student will build upon the two previous semester content to identify, assess, and manage illnesses and injuries involving various patient conditions and settings through didactic and scenario-based sim/lab. During this course, students will cover neonatology and pediatric emergencies. Students will also take the American Heart Association Advanced Cardiac Life Support Provider Course and American Heart Association Pediatric Advanced Life Support Provider Course. Successful affirmation as a provider in this class is a requirement for completing the course. Although this class covers the entire lifespan, special attention will be given to the pediatric populations.

## PROGRAM ALIGNMENT

This course is part of a program aligned through the Kansas Board of Regents and Technical Education Authority. For more information, please visit:

[https://kansasregents.org/workforce\\_development/program-alignment](https://kansasregents.org/workforce_development/program-alignment)

## 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://kckccbookstore.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**

- I. Obtain a pertinent medical history
  - A. Components of a pertinent medical history.
  - B. History of present illness or injury
  - C. Pertinence of past medical history to present situation
- II. Perform a complete physical assessment
  - A. Review body systems
  - B. Components of vital signs
  - C. Importance of each vital sign
- III. Implement appropriate care for patients
  - A. Drawing subcutaneous medication.
  - B. Administer a subcutaneous medication
  - C. Proper technique for an intramuscular injection
  - D. Complications of giving an intramuscular injection
  - E. Cleansing and dressing wounds
  - F. Obtain a venous blood sample
- IV. Demonstrate the ability to correctly interpret EKG's
  - A. Electrode application
  - B. Correlate EKG findings with patient's status
  - C. Proper treatment for an arrhythmia
  - D. Procedure for using a transcutaneous pacer
  - E. Distinguish between dysrhythmia and external electrical interference
- V. Demonstrate the ability to institute appropriate airway management techniques
  - A. Airway suctioning
  - B. Endotracheal intubation
  - C. Oxygen; administration
  - D. Evaluate respiratory pattern and quality
- VI. Demonstrate knowledge of medications
  - A. Drug reactions

- B. Patients at risk for drug toxicities
- C. Action of epinephrine
- D. Side effects of common respiratory medications

VII. Demonstrate the ability to recognize cardiopulmonary arrest and to institute appropriate treatment modalities

- A. Demonstrate CPR
- B. Importance of “clearing the patient” before applying electrical therapy
- C. Forms of electrical therapy available for arrest and peri-arrest situations
- D. ACLS guidelines

VIII. Neonatology

- A. General pathophysiology, assessment, and management
- B. The distressed newborn
- C. Specific neonatal situations

IX. Pediatrics

- A. General approach to pediatric emergencies
- B. Pediatric assessment
- C. General management of pediatrics
- D. Specific medical emergencies
- E. Trauma emergencies
- F. SIDS

## **COURSE LEARNING OUTCOMES**

Upon successful completion of this course, the student will:

1. Demonstrate the ability to obtain a pertinent medical history on a variety of patients.
2. Demonstrate the ability to perform a complete physical assessment on a patient.
3. Implement appropriate care for patients encountered in the scenario, sim/lab setting.
4. Demonstrate the ability to correctly interpret EKG's obtained from patients in the scenario, sim/lab setting.
5. Demonstrate the ability to institute appropriate airway management techniques including oxygen therapy and endotracheal intubation
6. Demonstrate knowledge of medications used in the treatment of patients in clinical settings to include the medication, it's mechanism of action, indications, contraindications, side effects, and overdose treatment, if any.
7. Demonstrate the ability to recognize cardiopulmonary arrest and to institute appropriate treatment modalities.
8. Effectively manage the newborn patient.
9. Assess and manage the pediatric patient with various presentation.

**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>.