

COURSE SYLLABUS

LAST REVIEW	Spring 2021
COURSE TITLE	Paramedic Concepts II
COURSE NUMBER	PMED 0228
DIVISION	Health Professions
DEPARTMENT	Emergency Medical Education
CIP CODE	51.0904
CREDIT HOURS	8
CONTACT HOURS/WEEK	Class/Lab: 9
PREREQUISITES	PMED 0227
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. This course introduces the paramedic student to the various medical emergencies encountered. Anatomy and Physiology, Pathophysiology, Pharmacology, Assessment Based Management for Pulmonology, Cardiology, Neurology, Endocrinology, Allergies and Anaphylaxis, Gastroenterology, Urology and Nephrology, Toxicology and Substance Abuse, Hematology, Infectious Diseases, Psychiatric and Behavioral Emergencies. Assessment and care of geriatrics, patient from abuse and assault, challenged patients and chronic care patient will be addressed. Students will also expand knowledge, use and interpretation of ECGs, 12-Lead, ETCO₂ and other monitoring/diagnostic equipment into their care plan. Students will participate in multiple patient simulations of various medical emergency scenarios.

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

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

- I. Pulmonology
 - A. Pathophysiology
 - B. Assessment of the respiratory system
 - C. Management of respiratory disorders
 - D. Specific respiratory diseases
- II. Cardiology
 - A. Review of cardiovascular anatomy and physiology
 - B. ECG Monitoring
 - C. Dysrhythmias
 - D. Assessment and management of the cardiovascular patient
- III. Neurology
 - A. Pathophysiology
 - B. General assessment findings
 - C. Management of specific nervous system findings
- IV. Endocrinology
 - A. Pathophysiology
 - B. Endocrine disorders and emergencies
- V. Allergies and Anaphylaxis
 - A. Pathophysiology
 - B. Assessment findings in anaphylaxis
 - C. Management of anaphylaxis
 - D. Assessment findings in allergic reaction
 - E. Management of allergic reaction
- VI. Gastroenterology
 - A. General pathophysiology, assessment, and treatment
 - B. Specific illnesses

- VII. Urology and Nephrology
 - A. General Mechanisms of Non-Traumatic Tissue Problems
 - B. General Pathophysiology, Assessment and Management
 - C. Renal and Urologic Emergencies
- VIII. Toxicology and Substance Abuse
 - A. Epidemiology
 - B. Poison Control Centers
 - C. Routes of Toxic Exposure
 - D. General Principles of Toxicological Assessment and Management
- IX. Hematology
 - A. General Assessment and Management
 - B. Managing Specific Patient Problems
- X. Infectious Diseases
 - A. Public Health Principles
 - B. Public Health Agencies
 - C. Microorganisms
 - D. Contraction, Transmission, and Stages of Disease
 - E. Infection Control in Pre-Hospital
 - F. Assessment of the Patient with Infectious Disease
 - G. Selected Infectious Disease
 - H. Preventing Disease Transmission
- XI. Psychiatric and Behavioral Emergencies
 - A. Pathophysiology of Psychiatric Disorders
 - B. Specific Psychiatric Disorders
 - C. Assessment of Behavioral Emergencies
 - D. Management of Behavioral Emergencies
 - E. Violent Patients and Restraint
- XII. Geriatrics
 - A. Epidemiology and demographics
 - B. General pathophysiology, assessment, and management
 - C. System pathophysiology in the elderly
 - D. Common medical problems in the elderly
 - E. Trauma in the elderly patient
- XIII. Abuse and Assault
 - A. Partner abuse
 - B. Elder abuse
 - C. Child abuse
 - D. Sexual assault

- XIV. Challenged Patients
 - A. Physical challenges
 - B. Mental Challenges and emotional impairments
 - C. Developmental disabilities
 - D. Pathological challenges
 - E. Other challenges
- XV. Chronic Care Patients
 - A. Epidemiology of home care
 - B. General system pathophysiology, assessment and management
 - C. Specific acute home health emergencies
- XVI. Assessment Based Management
 - A. Effective assessment
 - B. The right equipment
 - C. General approach to the patient
 - D. presenting the patient
 - E. Review of common complaints

COURSE LEARNING OUTCOMES

Upon successful completion of this course, the student will:

- A. Demonstrate a knowledge of pulmonology as it relates to patient assessment and care provided.
- B. Demonstrate a knowledge of cardiology as it relates to patient assessment and care provided.
- C. Demonstrate a knowledge of neurology as it relates to patient assessment and care provided.
- D. Demonstrate a knowledge of endocrinology as it relates to patient assessment and care provided.
- E. Demonstrate a knowledge of allergies and anaphylaxis as it relates to patient assessment and care provided.
- F. Demonstrate a knowledge of gastroenterology as it relates to patient assessment and care provided.
- G. Demonstrate a knowledge of urology and nephrology as it relates to patient assessment and care provided.
- H. Demonstrate a knowledge of toxicology and substance abuse as it relates to patient assessment and care provided.
- I. Demonstrate a knowledge of hematology through proper patient assessment and treatment.
- J. Demonstrate a knowledge of infectious diseases through proper patient assessment and treatment.
- K. Demonstrate a knowledge of psychiatric and behavioral emergencies through proper patient assessment and treatment.
- L. Demonstrate knowledge of epidemiology and demographics; assess and

manage the care of a geriatric patient.

- M. Knowledgeable about the different types of abuse and assault they may encounter in the field.
- N. Demonstrate an understanding of assessing and providing care to the challenged/special needs patient.
- O. Demonstrate an understanding of assessment and acute interventions for the chronic-care patient.
- P. Demonstrate an understanding and ability to apply assessment-based management as an approach to patient care.

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>.