DATE OF REVIEW: 02/2013
CIP CODE: 51.0904
SEMESTER: Departmental Syllabus
COURSE TITLE: Paramedic Concepts - Medical Emergencies
COURSE NUMBER: EMTC0260
CREDIT HOURS: 4
INSTRUCTOR: Departmental Syllabus
OFFICE LOCATION: Departmental Syllabus
OFFICE HOURS: Departmental Syllabus
TELEPHONE: Departmental Syllabus
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KCKCC-issued email accounts are the official means for electronically communicating with our students.

PREREQUISITES: EMTC0228

REQUIRED TEXT AND MATERIALS: Please check with the KCKCC bookstore, http://www.kckccbookstore.com for the required text for your particular class.

COURSE DESCRIPTION:
In this course the student will learn to identify, assess, and manage illnesses and injuries involving the following body systems and topics:
   - Genitourinary
   - Toxicology
   - Alcoholism and Drug Abuse
   - Infectious Diseases
   - Environmental Concerns
   - Behavioral

Although this class covers the entire lifespan, special attention will be given to the geriatric and pediatric populations.

During this course students will also take the American Heart Association Advanced Cardiac Life Support Provider Course. Successful affirmation as a provider in this class is a requirement for completing this course.

METHOD 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, and 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 body systems and topics will be explored:

I. Urology and Nephrology
   A. General Mechanisms of Nontraumatic Tissue Problems
   B. General Pathophysiology, Assessment, and Management
   C. Renal and Urologic Emergencies

II. Toxicology and Substance Abuse
   A. Epidemiology
   B. Poison Control Centers
   C. Routes of Toxic Exposure
   D. General Principles of Toxicologic Assessment and Management

III. Hematology
   A. General Assessment and Management
   B. Managing Specific Patient Problems

IV. Environmental Emergencies
   A. Pathophysiology of Heat and Cold Disorders
   B. Heat Disorders
   C. Cold Disorders
   D. Near-Drowning and Drowning
   E. Diving Emergencies
   F. High Altitude Illness

V. Infectious Diseases
   A. Public Health Principles
   B. Public Health Agencies
   C. Microorganisms
   D. Contraction, Transmission, and Stages of Disease
   E. Infection Control in Prehospital Care
   F. Assessment of the Patient with Infectious Disease
   G. Selected Infectious Diseases
   H. Preventing Disease Transmission

VI. Psychiatric and Behavioral Emergencies
   A. Pathophysiology of Psychiatric Disorders
   B. Assessment of Behavioral Emergency Patients
   C. Specific Psychiatric Disorders
   D. Management of Behavioral Emergencies
   E. Violent Patients and Restraint

VII. HIPAA

EXPECTED LEARNER OUTCOMES:

A. The student will be able to demonstrate a knowledge of urology and nephrology as it relates to patient assessment and care provided.
B. The student will be able to demonstrate a knowledge of toxicology and substance abuse as it relates to patient assessment and care provided.
C. The student will be able to demonstrate a knowledge of hematology through proper patient assessment and treatment.
D. The student will demonstrate a knowledge of environmental emergencies through proper patient assessment and treatment.
E. The student will be able to demonstrate a knowledge of infectious diseases through proper patient assessment and treatment.
F. The student will be able to demonstrate a knowledge of psychiatric and behavioral emergencies through proper patient assessment and treatment.
G. The student will be able to demonstrate a knowledge of HIPPA and other patient privacy issues.

COURSE COMPETENCIES:

The student will be able to demonstrate a knowledge of Urology and Nephrology.
1. The student will discuss the pathophysiology of acute renal failure.
2. The student will recognize the signs and symptoms related to renal calculi.
3. The student will synthesize assessment findings and patient history information to accurately differentiate between pain of a urogenital emergency and that of other origins.

The student will be able to demonstrate a knowledge of Toxicology and Substance Abuse.
4. The student will correlate the abnormal findings in assessment with the clinical significance in the patient with the most common poisonings by ingestion.
5. The student will list the most common poisonings by overdose.

The student will be able to demonstrate a knowledge of Hematology
6. The student will describe normal red blood cell (RBC) production, function and destruction.
7. The student will define fibrinolysis.
8. The student will describe the pathology and clinical manifestations and prognosis associated with sickle cell disease.
9. The student will perform an assessment of the patient with hematologic disorder.

The student will be able to demonstrate a knowledge of Environmental Emergencies
10. The student will identify environmental factors that may cause illness or exacerbate a preexisting illness.
11. The student will describe several methods of temperature monitoring.
12. The student will describe the pathophysiology of heat illness.
13. The student will correlate abnormal findings in assessment with their clinical significance in the patient with hypothermia.
14. The student will describe the pathophysiology of diving emergencies.
15. The student will describe the specific function and benefit of hyperbaric oxygen therapy for the management of diving accidents.

The student will be able to demonstrate a knowledge of Infectious Diseases
16. The student will discuss public health principles relevant to infectious/ communicable disease.
17. The student will discuss the following relative to HIV - causative agent, body systems affected and potential secondary complications, modes of transmission, the seroconversion rate after direct significant exposure, susceptibility and resistance, signs and symptoms, specific patient management and personal protective measures, and immunization.
18. The student will discuss Hepatitis B (serum hepatitis), including the causative agent, the organ affected and potential secondary complications, routes of transmission, signs and symptoms, patient management and protective measures, and immunization.
19. The student will discuss mononucleosis, including the causative organisms, the body regions, organs, and systems affected, modes of transmission, susceptibility and resistance, signs and symptoms, patient management and protective measures, and immunization.
20. The student will perform an assessment of a patient with an infectious/ communicable disease.
21. The student will effectively and safely manage a patient with an infectious/ communicable disease, including airway and ventilation care, support of circulation, pharmacological intervention, transport considerations, psychological support/ communication strategies, and other considerations as mandated by local protocol.

The student will be able to demonstrate a knowledge of Psychiatric and Behavioral Emergencies
22. The student will define behavioral emergency.
23. The student will describe the medical legal considerations for management of emotionally disturbed
patients.
24. The student will demonstrate safe techniques for managing and restraining a violent patient.
25. The student will define behavior and distinguish between normal and abnormal.
26. The student will describe verbal techniques useful in managing the emotionally disturbed patient.
27. The student will formulate a field impression based on assessment findings.

_The student will be able to demonstrate a knowledge of HIPPA_

28. The student will demonstrate a knowledge of the different components of HIPAA
29. The student will value the patient’s right to privacy

**ASSESSMENT OF LEARNER OUTCOMES:**
Student progress is evaluated by means that include, but are not limited to, exams, written assignments, and class participation.

**SPECIAL NOTES:**

This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student’s progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.

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