SYLLABUS

DATE OF LAST REVIEW: 02/2013
CIP CODE: 51.0810
SEMESTER: Departmental Syllabus
COURSE TITLE: EMT Review
COURSE NUMBER: EMTC0140
CREDIT HOURS: 2
INSTRUCTOR: Departmental Syllabus
OFFICE LOCATION: Departmental Syllabus
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KCKCC-issued mail accounts are the official means for electronically communicating with our students

PREREQUISITE(S): Completion of an EMT course

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

COURSE DESCRIPTION:
This course is a review of didactic material. Its primary intent is to assist the student in preparing for the National Registry of Emergency Medical Technicians computer-adaptive test. The student should have completed an EMT Program and be eligible to sit for the NREMT Basic level exam. It may also aid currently-certified EMT’s in obtained continuing education.

In this discussion-oriented class the emphasis is placed on presenting an organized approach to examination preparation. It will provide the student with the opportunity to complete a number of computer-adaptive practice examinations by focusing the student’s attention on the entry-level exam matrix. This course will help the student identify the entry-level content areas that require attention.

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, panels,
conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

**COURSE OUTLINE:**

I. **Airway**  
   A. Respiratory System Review  
   B. Airway Assessment  
   C. Breathing Assessment  
   D. Ventilation Considerations  
   E. Special Considerations  
   F. Oxygen Therapy  

II. **Cardiology**  
   A. Circulatory System Review  
   B. Cardiac Compromise  
   C. Pharmacological Interventions  
   D. General Assessment and Care  

III. **Trauma**  
   A. Kinetics of Trauma  
   B. Mechanisms of Injury  
   C. Bleeding and Soft Tissue Trauma  
   D. Burns  
   E. Musculoskeletal Trauma  
   F. Head Trauma  
   G. Spinal Trauma  
   H. Eye, Face, and Neck Trauma  
   I. Chest Trauma  
   J. Abdominal and Genitourinary Trauma  
   K. Multisystem Trauma/Trauma in the Special Patient  

III. **Medical**  
   A. Respiratory Emergencies  
   B. Altered Mental Status, Stroke, and Headache  
   C. Seizures and Syncope  
   D. Diabetic Emergencies  
   E. Anaphylactic Reactions  
   F. Toxicologic Emergencies  
   G. Abdominal, Gynecologic, Genitourinary, and Renal Emergencies  
   H. Environmental Emergencies  
   I. Submersion Incidents  
   J. Behavioral Emergencies  

V. **Special Populations**  
   A. Obstetrics and Care of the Newborn  
   B. Pediatrics  
   C. Geriatrics  
   D. Patients with Special Challenges  

VI. **EMS Operations**
A. Ambulance Operations
B. Gaining Access and Patient Extrication
C. Hazardous Materials
D. Multiple-Casualty Incidents and Incident Management
E. EMS Response to Terrorism Involving Weapons of Mass Destruction

VII. Test-taking Techniques
A. Before the Test
B. During the Test

EXPECTED LEARNER OUTCOMES:

A. The student will be able to apply knowledge of general anatomy and physiology to patient assessment and management in order to assure a patent airway, adequate mechanical ventilation, and respiration for patients of all ages.
B. The student will be able to discuss the cardiovascular system.
C. The student will be able discuss the kinematics of trauma.
D. The student will be able to apply fundamental knowledge to provide basic emergency care and transportation based on assessment findings for an acutely injured patient.
E. The student will be able to distinguish between major categories of medical emergencies.
F. The student will be able to apply fundamental knowledge of growth, development, and aging and assessment findings to provide basic emergency care and transportation for a patient with special needs.
G. The student will be able to apply knowledge of operational roles and responsibilities to ensure patient, public, and personnel safety.
H. The student will list and explain two test-taking techniques.

COURSE COMPETENCIES:
Upon successful completion of this course:

The student will be able to apply knowledge of general anatomy and physiology to patient assessment and management in order to assure a patent airway, adequate mechanical ventilation, and respiration for patients of all ages.

1. The student will be able to relate the anatomy and physiology of the respiratory system to ventilation and respiration.
2. The student will distinguish between patients with adequate and inadequate breathing.

The student will be able to discuss the cardiovascular system.

3. The student will be able to explain the structure and function of the cardiovascular system.
4. The student will be able to describe the roles of the heart and blood vessels in maintaining normal blood pressure.
5. The student will explain the pathophysiology and appropriate assessment and treatment of myocardial infarction.
6. The student will explain the typical presentation of the myocardial ischemia or infarction.

The student will be able discuss the kinematics of trauma.

7. The student will be able to describe the relationship of mass and velocity to kinetic...
The student will be able explain the typical patterns of injury associated with the various types of motor vehicle impact.

The student will be able to identify patients who meet trauma triage criteria for transportation to a trauma center.

The student will be able to apply fundamental knowledge to provide basic emergency care and transportation based on assessment findings for an acutely injured patient.

The student will define hemorrhagic shock and the basic approach to care.

The student will recognize the indications of the severity of internal bleeding.

The student will summarize the classification of burns by depth and body surface area involved.

The student will discuss hazards of improper splinting.

The student will describe the neurological assessment of the patient with suspected traumatic brain injury.

The student will describe the appropriate care for the patient with suspected spinal injury.

The student will define and list specific types of open chest injuries.

The student will be able to distinguish between major categories of medical emergencies.

The student will be able to describe the relationship between stroke and transient ischemic attack.

The student will be able to list the common causes of secondary seizures.

The student will describe how glucose levels are regulated in normal metabolism.

The student will develop a treatment plan for the patient with an anaphylactic reaction.

The student will be able to describe each of the four routes by which poison can enter the body.

The student will be able to describe the stages of labor.

The student will be able to use the Pediatric Assessment Triangle (PAT) to determine a pediatric patient’s status.

The student will be able to describe modifications that may be necessary to effectively assess and treat geriatric patients.

The student will list and explain various test-taking techniques.
adaptive tests.

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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