

SYLLABUS

DATE OF LAST REVIEW:	Fall 2019
CIP CODE:	51.0904
SEMESTER:	Departmental Syllabus
COURSE TITLE:	Emergency Medical Technician (EMT)
COURSE NUMBER:	EMTC0128
CREDIT HOURS:	10
INSTRUCTOR:	Departmental Syllabus
OFFICE LOCATION:	Departmental Syllabus
OFFICE HOURS:	Departmental Syllabus
TELEPHONE:	Departmental Syllabus
EMAIL:	Departmental Syllabus

PREREQUISITE(S): Accuplacer Reading score of 243+ or higher. Completion of an Emergency Medical Responder (EMTC0105) with a minimum “C” grade or higher. Director approval may be given in place of course completion requirement.

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

COURSE DESCRIPTION:

This course provides the opportunity to gain the knowledge and skills necessary to administer basic life support care to ill or injured patients. Upon completion with a grade of “C” or better, students are able to challenge the National Registry and Kansas certification exams and apply for certification as an EMT in the state of Kansas. A minimum of 12 clock hours of clinical and field work, in addition to scheduled class time, are required. **Due to State of Kansas requirements discussed at the first class, attendance of the first class session is mandatory.**

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 Protocol for EMT Training.

- I. Cardiopulmonary Resuscitation (CPR/AED & Choking)**
 - A. Adult
 - B. Child
 - C. Infant
- II. Preparatory**
 - A. Introduction to Emergency Medical Care
 - B. The Well-Being of the EMT
 - C. Medical, Legal, Research and Ethical Issues
 - D. Baseline vital Signs and History Taking
 - E. Preparing to Lift and Move Patients
- III. Anatomy and Physiology, Medical Terminology, Pathophysiology**
 - A. Anatomical Planes
 - B. Standard Anatomic Terms
 - C. Body Systems
 - D. Life Support Chand and Fundamental Elements
 - E. Age Related Variations
 - F. Medical Terminology
 - G. Pathophysiology
- IV. Airway**
 - A. Airway Management
 - B. Ventilation
 - C. Oxygen Therapy
 - D. Advanced Airway Management
- V. Pharmacology**
 - A. Medication Safety
 - B. Medications used in an Emergency
 - C. Forms of Medication
 - D. Routes of Medication Administration
 - E. Basic Medication Terminology
 - F. Drug Name
 - G. Drug Profile
 - H. Prescribing Information
 - I. Medication Administration Procedure
 - J. Assist/Administer Mediations to a Patient
 - K. Techniques of Medication Administration
 - L. Reassessment
 - M. Documentation
 - N. EMT-Administer Medications
 - O. EMT-Assisted Medications
- VI. Patient Assessment**
 - A. Scene Size-Up
 - B. Patient Assessment
 - C. Assessment of Special Patient Populations
 - D. Communication
 - E. Documentation
- VII. Medical**
 - A. Medical Overview
 - B. Neurology
 - C. Abdominal and Gastrointestinal Disorders

- D. Immunology
- E. Infectious Disease
- F. Endocrine Disorders
- G. Psychiatric
- H. Cardiovascular
- I. Toxicology
- J. Respiratory
- K. Hematology
- L. Genitourinary/Renal
- M. Gynecology/ Obstetrics
- N. Non-Traumatic Musculoskeletal Disorders
- O. Diseases of the Eyes, Ears, Nose and Throat

VIII. Trauma

- A. Mechanisms of Injury: Kinetics of Trauma
- B. Bleeding and Shock
- C. Soft Tissue Injuries
- D. Burn Emergencies
- E. Musculoskeletal injuries
- F. Injuries to the Head
- G. Injuries to the Spine
- H. Eye, Face, and Neck Injuries
- I. Chest, Abdomen, and Genitalia injuries
- J. Agricultural and industrial Emergencies

IX. EMS Operations, IMS, Hazardous Materials and Crime Scene

- A. Principles of Safely Operating a Ground Ambulance
- B. Incident Management
- C. MCI
- D. Air Medical
- E. Vehicle Extrication
- F. Hazardous Materials Awareness
- G. Mass Casualty Incidents Due to Terrorism and Disaster
- H. Crime Scene Preservation

X. Kansas Enrichments, ALS Assist Procedures

- A. BLS Airways and Adjuncts particular to Kansas
- B. IVs and the Kansas EMT
- C. EKGs and 12-Leads
- D. Use of Glucometers
- E. Assisting the Paramedic for Endotracheal Intubation

EXPECTED LEARNER OUTCOMES:

- A. The learner will demonstrate proficiency in adult, child & infant CPR procedures and skills.
- B. The learner will discuss the responsibilities & the well-being of the EMT-Basic.
- C. The learner will discuss anatomical structures & their functions, basic pathophysiology and medical terminology.
- D. The learner will demonstrate proficiency in obtaining vital signs, history taking and lifting & moving patients.
- E. The learner will demonstrate proficiency in managing patients' airway.
- F. The learner will perform a complete patient assessment.

- G. The learner will discuss mechanism, signs & symptoms and management of trauma.
- H. The learner will discuss nature of illness, signs and symptoms and management of medical emergencies.
- I. The learner will discuss various EMS operations, MCI, terrorism, disaster and crime scene preservation.
- J. The learner will be familiar with the Kansas enrichments to the EMT curriculum.

COURSE COMPETENCIES:

The learner will demonstrate proficiency in adult, child, and infant CPR procedures and skills.

- 1. The learner will demonstrate adult obstructed airway maneuvers.
- 2. The learner will demonstrate adult CPR procedures.
- 3. The learner will demonstrate child obstructed airway maneuvers.
- 4. The learner will demonstrate child CPR procedures.
- 5. The learner will demonstrate infant obstructed airway maneuvers.
- 6. The learner will demonstrate infant CPR procedures.
- 7. The learner will demonstrate rescue breathing for adult, child and infants.
- 8. The learner will discuss use of the Automatic external defibrillator and resuscitation of the cardiac arrest patient.
- 9. The learner will relate risk factors associated to heart disease & strokes.
- 10. The learner will pass CPR written exam with score of 84% or higher.

The learner will discuss the responsibilities and the well-being of the EMT.

- 11. The learner will relate body substance isolation procedures to specific patient care.
- 12. The learner will relate principles of scene safety to patient care scenarios.
- 13. The learner will discuss stress management.

The learner will discuss medical, legal, ethical and human issues of prehospital care.

- 14. The learner will define scope of practice and relate it to legal duties and ethical responsibilities.
- 15. The learner will define types of patient consent.
- 16. The learner will discuss patient refusal and advance directives.
- 17. The learner will define and discuss negligence and the reporting of special situations.

The learner will discuss anatomical structures and the function of obtaining vital signs and history taking.

- 18. The learner will discuss anatomy & function of the musculoskeletal system.
- 19. The learner will discuss anatomy & function of the respiratory system.
- 20. The learner will discuss anatomy & function of the circulation system.
- 21. The learner will discuss anatomy & function of the nervous system.
- 22. The learner will discuss anatomy & function of the endocrine system.
- 23. The learner will discuss anatomy & function of the skin.

The learner will demonstrate the correct procedures and techniques for obtaining vital signs.

- 24. The learner will demonstrate assessment of respiratory rate, rhythm & quality.
- 25. The learner will demonstrate assessment of pulse rate, rhythm & quality.
- 26. The learner will demonstrate assessment of skin moisture, temperature & condition.
- 27. The learner will demonstrate assessment of pupil size & reactivity to light.
- 28. The learner will demonstrate assessment of blood pressure.
- 29. The learner will demonstrate assessment of ability to secure SAMPLE/OPQRSTI history.

The learner will demonstrate correct procedures and techniques for managing a patient's airway.

30. The learner will discuss anatomy & function of the respiratory system.
31. The learner will discuss the airway anatomy in infants & children and relate it to care.
32. The learner will demonstrate appropriate airway opening techniques.
33. The learner will demonstrate use of airway adjuncts and suction equipment.
34. The learner will differentiate between adequate and inadequate breathing.
35. The learner will demonstrate techniques of artificial ventilation and relate them to specific situations.
36. The learner will demonstrate correct operation of oxygen tanks and regulators and relate use to specific situations.
37. The learner will discuss & demonstrate special airway management considerations.
38. The learner will discuss & demonstrate use of the ETC Multi-lumen Airway (Combitube).
39. The learner will discuss the use of Endotracheal Intubation

The learner will perform a complete patient assessment.

40. The learner will perform a scene size up.
41. The learner will perform an initial assessment.
42. The learner will perform a rapid trauma assessment and a focused.
43. The learner will perform a detailed trauma assessment.
44. The learner will perform an ongoing trauma assessment.
45. The learner will demonstrate assessment and recording of vital signs.
46. The learner will provide a description of the scene in the form of a radio report.

The learner will discuss mechanism, signs and symptoms, and management of trauma.

47. The learner will discuss mechanism of injury as it relates to kinetics trauma.
48. The learner will discuss bleeding & shock.
49. The learner will discuss soft tissue injuries.
50. The learner will discuss burn emergencies.
51. The learner will discuss musculoskeletal injuries and demonstrate use of appropriate splint in the management of those injuries.
52. The learner will demonstrate the proper techniques of fully immobilizing a patient to a long spine board from both a supine and a standing position.
53. The learner will discuss injuries of the head.
54. The learner will discuss injuries of the spine.
55. The learner will discuss injuries of the eye, face & neck.
56. The learner will discuss injuries of the chest, abdomen & genitals.
57. The learner will discuss agricultural and industrial emergencies.

The learner will be familiar with the Kansas enrichments to the EMT curriculum.

58. The learner will discuss the Kansas Enrichment regarding EMT-Bs and IVs.
59. The learner will discuss and demonstrate how to properly spike an IV.
60. The learner will discuss how to monitor acceptable flow in a non-medicated IV.
61. The learner will discuss the signs and symptoms indicating the flow of a monitored IV should be stopped.
62. The learner will discuss and demonstrate how to stop the flow of a monitored IV.

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.

Kansas City Kansas Community College is committed to a policy of educational equity. Accordingly, the College admits students, grants financial aid and scholarships, and conducts all educational programs, activities, and employment without regard to race, color, creed, religion, sex, national origin, age, sexual orientation, gender identity, marital status, ancestry, veteran status, or disabilities.

Any person having inquiries concerning College compliance with regulations implementing Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, or the American with Disabilities Act of 1990, is directed to contact Human Resources, Kansas City Kansas Community College, 7250 State Avenue, Kansas City, Kansas 66112, kckcchr@kckcc.edu or 913-288-7200.

Any person needing access to academic programs or college activities due to a documented disability is directed to contact the Student Accessibility and Support Services, 913-288-7664 for accommodations.

All enrolled students at Kansas City Kansas Community College are subject to follow all rules, conditions, policies and procedures as described in both the Student Code of Conduct as well as the Student Handbook. All Students are expected to review both of these documents and to understand their responsibilities with regard to academic conduct and policies. The Student Code of Conduct and Student Handbook can be found on the KCKCC website.