

Common Course Outline
EMST 105
Emergency Medical Technician Basic
(6 Credits)

The Community College of Baltimore County

Description

Emergency Medical Technician Basic

Introduces theory and techniques of basic emergency medical care in the prehospital setting, pathophysiological principles related to the recognition and management of a variety of patient conditions; satisfies the requirements leading to State and National EMT-Basic certification and is 131 clock hours.

Note: Students seeking State of Maryland certification as an Emergency Medical Technician Basic (EMT-B) must be affiliated with a Maryland career, volunteer, or commercial ambulance service prior to the State certification examinations. Students who are not affiliated prior to the State certification examinations will be allowed to take the examinations, but must also pay a testing fee established by the State, and collected at the time of the examinations, and will not receive State certification as an EMT-B until they have gained affiliation. Prerequisites: Students must be at least 18 years-of-age and have a high school diploma or GED, must be able to meet the minimum physical and psychological requirements for an EMT-B as stated in the Functional Job Analysis for Emergency Medical Technician's, and written permission of the EMT Program Director. Prerequisites: ENGL 051, ESOL 051, RDNG 051, MATH 081

Overall Course Objectives

Upon completion of this course, students will be able to:

1. Define Emergency Medical Services (EMS) Systems.
2. Describe the roles and responsibilities related to personal safety.
3. Define medical direction and discuss the EMT-Basic's role in the process.
4. State the specific statutes and regulations in the student's state regarding the EMS system.
5. Assess areas of personal attitude and conduct of the EMT-Basic.
6. Recognize the signs and symptoms of critical incident stress.
7. Describe the steps the EMT-Basic should take for personal protection from airborne and bloodborne pathogens.
8. Define the EMT-Basic Scope of Practice.
9. State the conditions necessary for the EMT-Basic to have a duty to act.
10. State the conditions that require an EMT-Basic to notify law enforcement officials.
11. Describe the anatomy and physiology of the following major body systems: respiratory, circulatory, musculoskeletal, nervous, and endocrine.
12. Identify the components of vital signs.

13. Describe the methods of determining: breathing rate, blood pressure, respiratory rate, skin temperature, color, and condition, blood oxygen saturation, pupillary reaction.
14. Identify the components of the SAMPLE and OPQRST survey.
15. Demonstrate the skills involved in assessing the vital signs.
16. Describe the guidelines and safety precautions for carrying patients and/or equipment.
17. List the signs of adequate and inadequate breathing.
18. Demonstrate the steps in performing airway management and oxygen administration.
19. Discuss common mechanisms of injury.
20. Describe the methods of assessing a patient's level of consciousness, airway, breathing, and circulatory status.
21. Demonstrate the techniques for assessing a patient's level of consciousness, airway, breathing, and circulation.
22. State the reasons for performing a rapid trauma assessment.
23. Demonstrate the rapid trauma assessment that should be used to assess a patient based on the mechanisms of injury.
24. Discuss the components of the detailed physical examination.
25. Demonstrate the skills involved in performing the detailed physical examination.
26. List the proper sequence for delivery of patient information.
27. Perform a simulated, organized, concise radio transmission.
28. Explain the components of the written patient care report, and list the information that should be contained in the written patient care report.
29. Identify which medications are carried on the ambulance.
30. Demonstrate the general steps for assisting patients with self-administration of medications.
31. Describe the emergency medical care of the patient with breathing difficulty.
32. Demonstrate the emergency medical care for breathing difficulty.
33. Describe the emergency medical care for the patient experiencing chest pain/discomfort.
34. Demonstrate the emergency medical care for the patient experiencing chest pain/discomfort.
35. Discuss the advantages and disadvantages of automated external defibrillation.
36. Demonstrate the use of the automated external defibrillator.
37. State the steps in the emergency medical care of the patient taking diabetic medicine with an altered mental status and a history of diabetes.
38. Demonstrate the steps in the emergency medical care of the patient taking diabetic medicine with an altered mental status and history of diabetes.
39. Recognize the patient experiencing an allergic reaction.

40. Demonstrate the steps in emergency medical care for the patient experiencing an allergic reaction.
41. List the signs and symptoms of exposure to heat and cold.
42. Demonstrate the steps in emergency medical care for the patient experiencing exposure to heat or cold.
43. Discuss the general factors that may cause an alteration in a patient's behavior.
44. Demonstrate the assessment and emergency medical care of the patient experiencing a behavioral emergency.
45. Identify normal and pre-delivery obstetrical emergencies.
46. Demonstrate the procedures for childbirth.
47. State methods of emergency medical care for patients experiencing a trauma emergency, including: soft tissue injury, musculoskeletal injury, spinal injury, and shock.
48. Demonstrate the methods of emergency medical care for patients experiencing a trauma emergency.
49. Identify the developmental considerations for the following age groups: infants, toddlers, pre-school, school age, and adolescent.
50. Differentiate the response of the ill or injured infant or child (age-specific) from that of an adult.
51. Discuss the medical and non-medical equipment needed to respond to a call.
52. State what information is essential in order to respond to a call.
53. Discuss the role of the EMT-basic in extrication.
54. Explain the EMT-Basic's role during a call involving a hazardous material.
55. Demonstrate knowledge of the cognitive objectives 49 through 54.

Major Topics

Preparatory
Airway
Patient Assessment
Medical Emergencies
Behavioral Emergencies
Obstetric/Gynecologic Emergencies
Trauma
Infants and Children
Operations
Electives (at the discretion of the course instructor)

Course Requirements

Students will be required to gain field experience as part of the course completion requirements, to include documentation of not less than 5 patient assessments on actual medical or trauma patients. (Field experience is arranged by the course instructor.)

Completion of a personal health history, which will include signing a statement that the student can lift at least 125 pounds unassisted. Students age 40 and over will also be required to have a complete physical examination, including ECG performed by a physician licensed to practice medicine in the State of Maryland. All students will be required to provide evidence of immunizations from childhood diseases through an authenticated vaccination record or a recent blood test, as well as evidence of a recent tuberculosis test.

Students must present documentation that they have either received the complete series of Hepatitis B Vaccination (HBV), or have received the first of the 3 vaccination injections, or must sign a waiver stating that they do not wish to be vaccinated.

Students must provide evidence of current medical/health insurance.

Students will have to complete a Hazardous Materials Awareness or Operations training class, as well as a Blood Borne Pathogen and Infectious Disease Awareness training class.

In addition to textbooks, students will be required to purchase a student identification card, a uniform, respiratory protection mask, and examination gloves (required for field experience rotation.)

No more than three un-excused absences are permitted for this course. More than three un-excused absences renders the student ineligible to take the State EMT-B certification examination.

There are seven written and practical skill module examinations. Students who fail two module examinations (either written or practical skill), or one module and one retest of a module examination are rendered ineligible to take the State EMT-B certification examination. The passing score on the written module examination is 70%. The passing score on the practical skill module examination is satisfactory performance based on an objective skill sheet.

Students must pass the CCBC Essex course final written examination with a 70% to be eligible to take the State EMT-B certification examination.

Other Course Information

Educational enrichment opportunities include class trips to the Maryland State Police Medevac hangar at Martin State Airport; the R Adams Cowley Shock Trauma Center in Baltimore; and the 9-1-1/Emergency Operations Center for Baltimore County in Towson, Maryland.

This course is conducted for credit on the Essex campus only. A non-credit course is conducted through the CCBC Office of Continuing Education on the Catonsville campus as well.

Successful completion of this course is required in order to be eligible for consideration for selection into the CCBC Essex Emergency Medical Technology (Paramedic) Associate of Applied Science Degree program.