

**CENTRAL TEXAS COLLEGE
EMSP 1305
EMERGENCY CARE ATTENDANT**

Semester Hours Credit: 3

INSTRUCTOR: _____

OFFICE HOURS: _____

I. INTRODUCTION

Course Description: First responder course in emergency medical care. Emphasis on requirements of national and state accrediting agencies.

- A. This course serves as a First responder, Emergency Care Attendant course.
- B. The First responder, Emergency Care Attendant is designed to provide training in skills and equipment necessary to help maintain basic life support. Instruction is given in basic Anatomy and Physiology, patient assessment, and the theory behind the procedures used in giving pre-hospital care to the sick and injured.
- C. Upon successful completion of the program, the students are eligible to take the exam to be certified as an Emergency Care Attendant (First Responder) and use the hours for continuing education in order to renew EMT-Basic by the Texas Department of Health and/or National Registry EMT.
- D. There are no prerequisites for this course

II. LEARNING OUTCOMES

Demonstrate a working knowledge of clinical information and related topics relevant to the practice of pre-hospital emergency medical care at the emergency care attendant (ECA) level; the ability to competently perform all applicable skills; and exhibit attitudes and behavior consistent with the ethics and professionalism expected of the emergency care attendant.

Although not all chapters of the text will be covered in the classroom, it is required that the student review (read) all chapters before taking any type of registry exam.

The curriculum that this class will follow is as described below.

- A. Define the Emergency Medical Services System and the roles and responsibilities of the EMT-B within the system. Issues of the EMT-B's safety, well-being, legal and ethical issues, quality assessment and quality improvement, assess areas of

personal attitude and conduct and characterize various methods used to access the EMS system in their community, such as possible reactions of themselves and/or the family when confronted with death and dying. Then last have a basic understanding of anatomy and physiology, safe lifting and moving of the patient.

- B. Understand the need for proper airway management, including recognizing adequate and inadequate breathing, maintaining an open airway, artificial ventilation, the use of airways, suction equipment, oxygen equipment and delivery systems, and resuscitation devices.
- C. The ability to perform a rapid but accurate assessment, treat for life threatening conditions and initiate transport to the hospital within optimum time limits. Differentiating the steps of assessment and their application to the different types of trauma and medical patients, pediatric adult and geriatric, plus skills of vital signs measurement, taking of patients' history, effective communication and documentation with team members as well as the patient and their family.
- D. Understand the significance and characteristics of, as well as pathophysiology of signs and symptoms, indications and contraindications of general pharmacology, respiratory, cardiovascular, diabetic, allergies, poisonings and overdose, environmental, behavioral and obstetrical/gynecological emergencies and the use of automated defibrillator and general care of these patients.
- E. Will have an understanding of basic concepts of energy and its effects on the human body, the general injury patterns associated with different types of impacts, falls, penetrating trauma, and the basic laws of physics on assessment of trauma patients. Will also understand the significance and characteristics of bleeding, causes of shock, the process of perfusion, classifications of cardiovascular vs. non-cardiovascular based shock, and the general and specific emergency medical care provided to the patients with shock, the importance of body substance isolation, signs and symptoms associated with the bleeding patient and the methodologies for controlling bleeding including splinting, dressing and bandaging, the indications and contraindications of tourniquets and pneumatic anti-shock garments. The general and specific emergency medical care provided to the patients with soft tissue, eye, face and throat, chest, abdomen and genitalia, musculoskeletal, head and spine injuries, burns including thermal, chemical, and electrical and special considerations for the assessment and treatment of infant, children and geriatric patient with burns.
- F. The difference between treating the adult and pediatric patient, understanding the physical and psychological difference and the significance and characteristics of development stages and the common illnesses and emergencies in infants and children compared to adults, the types of injuries affecting children of all ages, special types of body systems injuries, and appropriate assessment and emergency care for suspected victims of child abuse.

- G. The non-medical operations and special situations including ambulance operations, basic ambulance design and equipment, phases of the ambulance call, and air ambulance operations, motor vehicle collision rescues, concepts and approach to extrication and entrapment, the recognition, identification, and general approach to hazardous material incidents, the concepts and application of incident management systems, and the process of triage.

III. INSTRUCTIONAL MATERIALS

The instructional materials identified for this course are viewable through www.ctcd.edu/books

IV. COURSE REQUIREMENTS

- A. The student will accumulate 48 didactic and lab hours.

Basic didactic instruction will follow the curriculum as outlined by the Texas Department of Health and the U.S. Department of Transportation, National Highway Traffic Safety Administration's Emergency Medical Technician-Basic National Standard Curriculum. This course will cover the following modules:

1. Preparatory
2. Airway
3. Patient Assessment
4. Medical/Behavioral emergencies and Obstetrics/Gynecology
5. Trauma
6. Infants and Children
7. Operations

- B. Attendance at all the designated sessions is required of students. Absences must be explained to the satisfaction of the course coordinator and course Physician. Excessive absenteeism or being absent from any mandatory session may/will result in dismissal from the program.

NOTE: CTC Attendance Policy

The following statements are from the Central Texas College Student Handbook:

“Students are required to attend regularly, all classes in which they enrolled. Students are required to be in class on time.”

“Absences from classes, for any reason, must not exceed College standards. Students may be administratively withdrawn from any class when their absences exceed a total of four class meetings in a long semester, three class meetings for

an eleven-week, eight-week semester, or for a six-week semester, and in the opinion of the instructor, they cannot satisfactorily complete the course. The final decision rest solely with the instructor.”

Overall:

Students are responsible for written work and meeting class objectives. Always notify an instructor in advance of an absence and check with the instructor immediately after an absence. Make-up work may be required. Any Student missing two (2) consecutive theory days must be in contact with the course coordinator prior to being allowed to return to the classroom or clinical area. Inability to meet clinical objectives in this time frame allowed may result in failure. Students must complete 100% of the course minimum required clinical hours.

V. EXAMINATIONS

To be announced in class.

VI. SEMESTER GRADE COMPUTATIONS

Homework and quiz grades will be averaged together to make a major exam grade. The four exams and the homework and quiz average are equally weighted. The student must pass the class with a “C” or above in order to take the Texas Department of Health/National Registry written exam for certification as an Emergency Care Attendant.

1. The grading scale is as follows:

A	90-100
B	80-89.9
C	70-79.9
D	60-69.9
F	0-59.9

VII. NOTES AND ADDITIONAL INSTRUCTION FROM COURSE INSTRUCTOR

- A. Course Withdrawal: (Consistent with CTC policy)
- B. Administrative Withdrawal: (Consistent with CTC policy)
- C. Cellular Phones and Beepers: Cellular phones and beepers will be turned off while the student is in the classroom or laboratory.
- D. Incomplete Grade: (Consistent with CTC policy)

- E. American's with Disabilities Act (ADA): Disability Support Services provides services to students who have appropriate documentation of a disability. Students requiring accommodations for class are responsible for contacting the Office of Disability Support Services (DSS) located on the central campus. This service is available to all students, regardless of location. Explore the website at www.ctcd.edu/disability-support for further information. Reasonable accommodations will be given in accordance with the federal and state laws through the DSS office.
- F. Civility: Individuals are expected to be cognizant of what a constructive educational experience is and respectful of those participating in a learning environment. Failure to do so can result in disciplinary action up to and including expulsion. Minimal civility includes:
1. Being in class on time;
 2. Staying in class for the entire class period;
 3. Leaving early occurs only after informing the teacher, prior to class, of an unavoidable conflict requiring your early departure (if possible, position yourself close to the door for a minimum disruption to the class);
 4. Avoiding such uncivil conduct as talking, sleeping, reading papers/magazines, or working on some other class homework assignment; and
 5. Using socially acceptable language in classroom discussion.
- G. Office Hours: The program coordinator keeps office hours for the purpose of conferring with students. Students are encouraged to make appointments with instructors to discuss their needs and/or problems related to EMSP 1441. Please go through the secretary to be announced.
- H. Refund: (Consistent with CTC policy)
- I. Instructor Discretion: The instructor reserves the right of final decision in course requirements.

VIII. COURSE OUTLINE

- A. Section 1: Preparing to be an EMT-B
1. Introduction to Emergency Medical Care
 2. The Well-Being of the EMT-B
 3. Medical, Legal, and Ethical Issues
 4. The Human Body
 5. Baseline Vital Signs and SAMPLE History
 6. Lifting and Moving Patients

- B. Section 2: Airway
 - 1. The Mechanics of Breathing
 - 2. Airway and ventilation
 - 3. Airway Adjuncts and Oxygen Equipment

- C. Section 3: Patient Assessment
 - 1. Scene Size-up and Initial Assessment
 - 2. Initial Assessment
 - 3. Focused History and Physical Exam - Trauma
 - 4. Focused History and Physical Exam - Medical
 - 5. Detailed Physical Exam
 - 6. On-going Assessment
 - 7. Communications and Documentation

- D. Section 4: Medical Emergencies
 - 1. General Pharmacology
 - 2. Respiratory Emergencies
 - 3. Cardiovascular Emergencies
 - 4. Neurological Emergencies
 - 5. The Acute Abdomen
 - 6. Diabetic Emergencies
 - 7. Allergic Reactions and Envenomations
 - 8. Substance Abuse and Poisonings
 - 9. Environmental Emergencies
 - 10. Behavioral Emergencies
 - 11. Obstetrics and Gynecology Emergencies

- E. Section 5: Trauma
(C1, 3-9, 11-16, 18-20, F1-3, 4, 5-17)
 - 1. Kinematics of Trauma
 - 2. Bleeding and Shock
 - 3. Soft Tissue Injuries
 - 4. Eye, Face, Throat, Chest, Abdomen and Genitalia Injuries
 - 5. Musculoskeletal Care
 - 6. Head and Spine Injuries

- F. Section 6: Special Populations
(C5-7, 9, 11, 12, 14, 15, 16, 18-20, F1-3, 4, 5-17)
 - 1. Pediatric Airway and Resuscitation
 - 2. Pediatric Assessment and Medical Emergencies
 - 3. Pediatric Trauma
 - 4. Geriatric Assessment

- G. Section 7: Operations
(C1, 3-9, 11-16, 18-20, F1-3, 4, 5-17)
 - 1. Ambulance Operations
 - 2. Gaining Access
 - 3. Special Operations

