

**CENTRAL TEXAS COLLEGE
SYLLABUS FOR EMSP 1401
EMERGENCY MEDICAL TECHNICIAN-BASIC**

Semester Credit Hours: 4

INSTRUCTOR: As posted

OFFICE HOURS: As posted

I. INTRODUCTION

Course Description: Introduction to the level of Emergency Medical Technician (EMT) - Basic. Includes all the skills necessary to provide emergency medical care at a basic life support level with an ambulance service or other specialized services.

- A. This course is approved by the Texas Department of State Health Services (TDSHS) and is taught in accordance with the National Highway Traffic Safety Administration's National EMS Education Standards and the TDSHS curriculum requirements.
- B. This course is occupationally related and serves as preparation for jobs in pre-hospital care and emergency medical care.
- C. Prerequisites:
 - 1. Current Healthcare Provider CPR card
- D. Co-requisites:
 - 1. EMSP 1160
- E. Secretary's Commission on Achieving Necessary Skills (SCANS) and Differentiated Entry Level Competencies (DELC): Alphanumeric coding used throughout the syllabus denotes the integration of SCANS occupational competencies (C) and foundation skills (F).

II. LEARNING OUTCOMES

Demonstrate a working knowledge of clinical information and related topics relevant to the practice of pre-hospital emergency medical care of the EMT-Basic level; demonstrate the ability to competently perform all applicable skills; and exhibit attitudes and behavior consistent with the ethics and professionalism expected of the EMT-Basic. Curriculum in accordance with the National Highway Traffic Safety Administration's National EMS Education Standards and the TDSHS.

- A. Upon successful completion of this course, Emergency Medical Technician-Basic, the student will:
- B. Define the Emergency Medical Services System and the roles and responsibilities of the EMT-B within the system. (C-1, 3-6, 7, 9, 11, 14, 15, 18-20, F-1, 2, 4, 5-17)

- C. 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-1, 3-7, 9, 11, 12, 14, 16, 17, 19, 20, F-2, 3, 5-17)**
- D. 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. **(C1, 3-7, 9, 11-14, 16-20, F1-3, 4, 5-17)**
- E. 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. **(C1, 3-9, 11-16, 18-20, F1-3, 5-17)**
- F. Understand the basic concepts of energy and its effects on the human body, the significance and characteristics of bleeding, causes of shock, the general and specific emergency medical care provided to the patients with soft tissue injuries and special considerations for the assessment and treatment of infant, children and geriatric patient with burns. **(C1, 3-9, 11-16, 18-20, F1-3, 4, 5-17)**
- G. 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. **(C5-7, 9, 11, 12, 14, 15, 16, 18-20, F1-3, 4, 5-17)**
- H. The non-medical operations and special situations including ambulance operations, 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. **(C1, 3-9, 11-16, 18-20, F1-3, 4, 5-17)**

III. INSTRUCTIONAL MATERIALS

Instructional Materials for this course may be found at www.ctcd.edu/books

IV. COURSE REQUIREMENTS

- A. To attend clinical for EMSP 1160, the student must maintain good academic standing at all times in EMSP 1401. Failure to do so will require an immediate counseling session with the course coordinator and/or the Program and Medical Directors.
- B. The student will accumulate 128 didactic/ lab hours.

Basic didactic instruction will follow the curriculum as outlined by the Texas Department of

State Health Services (TDSHS) and is taught in accordance with the National Highway Traffic Safety Administration's National EMS Education Standards and the TDSHS curriculum requirements. This course will cover the following modules:

1. Foundations
2. Airway Management, Respiration and Artificial Ventilation
3. Patient Assessment
4. Medical Emergencies
5. Trauma
6. Special Populations
7. Operations

- C. 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, attending lab, achieving lab skill requirements, meeting class and clinical 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. Student has 7 days from the absence to make up any missed work. Any Student missing two (2) consecutive didactic/lab days must be in contact with the course coordinator prior to being allowed to return to the classroom, lab or clinical area.

V. EXAMINATIONS

There will be seven (7) online examinations and there will be one (1) comprehensive final exam for this course. All exams will be announced in the classroom and within your class outline provided on the first day. Attendance at Examinations: Student may be given a window of dates to complete the online exam in the computer lab located at CTC unless the exam is offered during class. Any exam that is not completed by the deadline date will automatically turn to a **zero (0)** in the gradebook. Student has 7 days after the missed exam to make it up.

VI. SEMESTER GRADE COMPUTATIONS

Grading Scale: The grading scale is as follows:

A	90 - 100
B	80 - 89.9
C	75 - 79.9

<u>Class Average</u>	<u>Total=100%</u>
Affective Domain	10%
Homework	20%
Quizzes	20%
Exams	50%

D	60 - 74.9
F	0 - 59.9

Affective Domain

The affective evaluation measures the students' attitudes, behaviors, motivation, appearance and professional attributes, as well as classroom conduct. Passing is appropriate classroom behavior, professional ethics, and adherence to policy. Breaches will result in student conference. Significant behavioral issues may result in failure of the affective domain. In most cases a written warning and time period for improvement will be given before assigning a failing grade. However, in cases where the behavior is significantly unacceptable, egregious, or poses a threat to the well-being of others, the posting of a failing grade may be immediate. Any student that fails the affective domain portion of the course will be dismissed from the EMS programs.

Affective Domain Grading Criteria

Students will be graded on a decreasing scale. In regards to the Affective Grade Only, each student begins with a classroom grade of 100 points and a clinical start grade of 10 points. As the course progresses, 5 points will be deducted for any of the following but are not limited to:

- Unexcused tardy
- Sleeping in class/lab/clinical
- No textbook in lecture
- No skills book in lab
- Any behavior/statement deemed as disrespectful/disruptive
- Lack of participation
- Not in proper uniform per policy in lab or clinical, this includes name badges.
- Bad language-cursing, offensive, sexual in nature
- Obscene gestures
- Cell phone or beeper going off, or texting during class, lab and/or clinical
- No radios or radio communication devices in class, lab and/or clinical
- Talking in class
- No Call, No Show (Clinical Sites)
- Dishonesty to patients, staff, or faculty

Students will be graded on a decreasing scale. Each student begins each semester with an Affective grade of 100%. As course progresses, points will be deducted for each attendance issue (absence, tardy or leaving early), uniform issue, participation issue, or professionalism issue. Students must have a grade of 70% or better to earn a passing Affective grade.

VII. NOTES AND ADDITIONAL INSTRUCTION FROM COURSE INSTRUCTOR

*All programmatic policies and procedures can be found in the EMS Student Handbook located within your virtual classroom.

Course Withdrawal: It is the student's responsibility to officially withdraw from a course if circumstances prevent attendance. Any student who desires to, or must, officially withdraw from a course after the first scheduled class meeting must file a Central Texas College Application for Withdrawal (CTC Form 59). The withdrawal form must be signed by the student.

CTC Form 59 will be accepted at any time prior to Friday of:

3rd week for 5-week courses

7th week for 10-week courses

4th week for 6-week courses

9th week for 12-week courses

6th week for 8-week courses

12th week for 16-week courses

The equivalent date (75% of the semester) will be used for sessions of other lengths. The specific last day to withdraw is published each semester in the Schedule Bulletin.

A student who officially withdraws will be awarded the grade of “W” provided the student’s attendance and academic performance are satisfactory at the time of official withdrawal. Students must file a withdrawal application with the College before they may be considered for withdrawal.

A student may not withdraw from a class for which the instructor has previously issued the student a grade of “F” or “FN” for nonattendance.

- A. Administrative Withdrawal: An administrative withdrawal may be initiated when the student fails to meet College attendance requirements. The instructor will assign the appropriate grade on CTC Form 59 for submission to the registrar.
- B. Incomplete Grade: The College catalog states, “An incomplete grade may be given in those cases where the student has completed the majority of the course work but, because of personal illness, death in the immediate family, or military orders, the student is unable to complete the requirements for a course. . .” Prior approval from the instructor is required before the grade of “IP” for Incomplete is recorded. A student who merely fails to show for the final examination will receive a zero for the final and an “F” for the course.
- C. Cellular Phones and Beepers: Cellular phones and beepers will be **turned off** while the student is in the **classroom or laboratory**.
- D. Tobacco and alcohol policy: The CTC EMS program also prohibits the use of any tobacco, which includes but is not limited to hookahs, smokeless tobacco, e-cigarettes, vaping apparatus, and other such tobacco substitutes, or alcohol products in the classroom, any community events that CTC participates in, and all clinical and field internship sites.
- E. 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.
- F. American’s With Disabilities Act (ADA): Disability Support Services provide 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. Instructor Discretion: The instructor reserves the right of final decision in course requirements.

VIII. COURSE OUTLINE

- A. Section 1: Foundations (C-1, 3-6, 7, 9, 11, 14, 15, 18-20, F-1, 2, 4, 5-17)

1. Introduction to Emergency Medical Care
2. The Well-Being of the EMT-B
3. Lifting and Moving Patients
4. Medical, Legal, and Ethical Issues

5. Medical Terminology
6. Anatomy & Physiology
7. Ventilation, Perfusion, & Shock
8. Life Span Development
- B. Section 2: Airway (C-1, 3-7, 9, 11, 12, 14, 16, 17, 19, 20, F-2, 3, 5-17)
 1. Airway Management
 2. Respiration & Artificial Ventilation
- C. Section 3: Patient Assessment (C1, 3-7, 9, 11-14, 16-20, F1-3, 4, 5-17)
 1. Scene Size-up
 2. Primary Assessment
 3. Vital signs & Monitoring Devices
 4. The Secondary Assessment
 5. Communications and Documentation
- D. Section 4: Medical Emergencies (C1, 3-9, 11-16, 18-20, F1-3, 4, 5-17)
 1. General Pharmacology
 2. Respiratory Emergencies
 3. Cardiovascular Emergencies
 4. Diabetic Emergencies & Altered Mental Status
 5. Allergic Reactions
 6. Poisonings & Overdose Emergencies
 7. Abdominal Emergencies
 8. Behavioral & Psychiatric Emergencies & Suicide
 9. Hematologic & Renal Emergencies
- E. Section 5: Trauma (C1, 3-9, 11-16, 18-20, F1-3, 4, 5-17)
 1. Bleeding and Shock
 2. Soft Tissue Injuries
 3. Chest & Abdomen Trauma
 4. Musculoskeletal Trauma
 5. Trauma to the Head and Spine
 6. Multisystem Trauma
 7. Environment Emergencies
- F. Section 6: Special Populations (C5-7, 9, 11, 12, 14, 15, 16, 18-20, F1-3, 4, 5-17)
 1. Obstetrics and Gynecology Emergencies
 2. Pediatric Emergencies
 3. Geriatric Assessment
 4. Emergencies for Patients with Special Challenges
- G. Section 7: Operations (C1, 3-9, 11-16, 18-20, F1-3, 4, 5-17)
 1. EMS Operations
 2. Hazardous Materials, Multiple Causality, and Incident Management
 3. Highway Safety and Vehicle Extrication
 4. EMS Response to Terrorism