Emergency Medical Technician (EMSP 1501)

Credit: 5 semester credit hours (3 hours lecture, 8 hours lab)

Prerequisite: Work Keys Reading Exam with a score of 5 or greater
or TSI writing with a score of 351 or greater **or** ENGL 1301 with a score of C or greater.

Co-requisite: EMSP 1160

Course Description
Preparation for certification as an Emergency Medical Technician (EMT).

Required Textbook and Materials
1. *Emergency Care & Transportation of Sick and Injured* by AAOS, 11th edition. Jones & Bartlett Publishers.

    a. ISBN number is 978-1-284-10690-9.

2. See EMS Program Student Handbook for equipment and uniform requirements.

Course Objectives[1]
Upon completion of this course, the student will be able to:
- Apply fundamental knowledge of the EMS system, safety/well-being of the EMT, and medical/legal and ethical issues to the provisions of emergency care.
- Apply fundamental knowledge of the anatomy and function of all human systems to the practice of EMS.
- Use fundamental anatomical and medical terms and abbreviations in written and oral communication with colleagues and other health care professionals.
- Apply fundamental knowledge of the pathophysiology of respiration and perfusion to patient assessment and management.
- Apply fundamental knowledge of life span development to patient assessment and management.
- Use simple knowledge of the principles of illness and injury prevention in emergency care.
- Apply fundamental knowledge of the medications that the EMT may assist/administer to a patient during an emergency.
- Apply knowledge (fundamental depth, fundamental breadth) 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.
- Apply scene information and patient assessment findings (scene size up, primary and secondary assessment, patient history, and reassessment) to guide emergency management.

[1] Curriculum based on National Emergency Medical Services Education Standards

- Apply fundamental knowledge to provide basic emergency care and transportation based on assessment findings for an acutely ill patient.
- Apply fundamental knowledge of the causes, pathophysiology, and management of shock, respiratory failure or arrest, and post resuscitation management.
- Apply fundamental knowledge to provide basic emergency care and transportation based on assessment findings for an acutely injured patient.
- Apply fundamental knowledge of growth, development, and aging and assessment findings to provide basic emergency care and transportation for a patient with special needs.
- Apply knowledge of operational roles and responsibilities to ensure safe patient, public, and personnel safety.

Course Outline

A. **Orientation**
B. **Preparatory**
   a. EMS Systems
   b. Workforce Safety and Wellness
   c. Medical, Legal, and Ethical Issues
   d. Communication and Documentation
   e. Medical Terminology
   f. The Human Body
   g. Life Span Development
   h. Lifting and Moving Patients
C. **Patient Assessment**
   a. Patient Assessment
D. **Airway**
   a. Airway Management
E. **Pharmacology**
   a. Principles of Pharmacology
F. **Shock and Resuscitation**
   a. Shock
   b. BLS Resuscitation
G. **Medical**
   a. Medical Overview
   b. Respiratory Emergencies
   c. Cardiovascular Emergencies
   d. Neurologic Emergencies
   e. Gastrointestinal Emergencies
   f. Endocrine and Hematologic Emergencies
   g. Immunologic Emergencies
   h. Toxicology
   i. Psychiatric Emergencies
   j. Gynecologic Emergencies
H. **Trauma**
   a. Trauma Overview
   b. Bleeding
   c. Soft-Tissue Injuries
   d. Face and Neck Injuries
   e. Head and Spine Injuries
   f. Chest Injuries
   g. Abdominal and Genitourinary Injuries
   h. Orthopaedic Injuries
   i. Environmental Emergencies
I. **Special Patient Populations**
   a. Obsetrics and Neonatal Care
   b. Pediatric Emergencies
   c. Geriatric Emergencies

	d. Patients With Special Challenges		c. Incident Management
J.	**EMS Operations**		d. Terrorism Response and Disaster Management
	a. Transport Operations		
	b. Vehicle Extrication and Special Rescue		

Grade Scale

90 – 100	A
84 – 89	B
75 – 83	C
70 – 74	D
0 – 69	F

Course Evaluation

Final grades will be calculated according to the following criteria:

1. Affective Evaluation   10%
2. Chapter Quiz   20%
3. Module Examination   20%
4. Mid-Term Examination   25%
5. Comprehensive Final Examination   25%

Course Policies

1. Computers, telephones, headphones, and any other electronic devices must be turned off while in class or used only with permission of the instructor.
2. Do not bring children to class.
3. Late assignments will be accepted on a case by case basis.
4. Tests. Students that miss a test are not allowed to make up the test. Students that miss a test will receive a grade of '0'.
5. Mid-Term Examination and Comprehensive Final Examination are proctored examinations that will be given on campus at a designated testing center.
6. Attendance Policy. Three absences are allowed. If a student is tardy to class or departs early two (2) times, it will be equal to one (1) absence. Each absence beyond three absences will result in a 5 point deduction from your final grade.
7. If you wish to drop a course, the student is responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an 'F' in the course.
8. Additional class policies as defined by the EMS Program Student Handbook.

Technical Requirements (for courses using Blackboard)

The latest technical requirements, including hardware, compatible browsers, operating systems, software, Java, etc. can be found online at:
https://help.blackboard.com/en-us/Learn/9.1_2014_04/Student/015_Browser_Support/015_Browser_Support_Policy A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of the online technology and resources.

Disabilities Statement

The Americans with Disabilities Act of 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409) 880-1737 or visit the office in Student Services, Cecil Beeson Building. You may also visit the online resource at http://www.lit.edu/depts/stuserv/special/defaults.aspx

Student Code of Conduct Statement

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at www.lit.edu or obtained in print upon request at the Student Services Office. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document