

Emergency Medical Technician (EMSP 1501)

INSTRUCTOR CONTACT INFORMATION

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Office Hours: Upon Request



**LAMAR INSTITUTE
OF TECHNOLOGY**

CREDIT

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

MODE OF INSTRUCTION

Face to Face, Online or Hybrid

PREREQUISITE/CO-REQUISITE:

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

EMSP 1260

COURSE DESCRIPTION

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

COURSE OBJECTIVES

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.

Approved: **Initials/date**

- 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.

REQUIRED TEXTBOOK AND MATERIALS

Emergency Care & Transportation of Sick and Injured by AAOS, 12th edition. Jones & Bartlett Publishers.

ISBN number is **978-1-284-20430-8**

Platinum Planner

See EMS Program Student Handbook for equipment and uniform requirements.

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.

DROP POLICY

If you wish to drop a course, you are 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.

COURSE CALENDAR

DATE	TOPIC	READINGS (Due on this Date)	ASSIGNMENTS (Due on this Date)
Week 1	Orientation		
	BLS Resuscitation		
	EMS Systems		
	Workforce Safety and Wellness		
Week 2	Medical, Legal, and Ethical Issues		
	Communications & Documentation		
	Clinical Orientation		
	Medical Terminology		
	Patient Assessment		
Week 3	The human body		
	Life span		
	Lifting and moving patients		
Week 4	Module Exam 1 / Skills		
	Airway Management		
	Principles of Pharmacology		
Week 5	Shock		
	Module 2 Exam / Skills		
	Medical Overview		
Week 6	Respiratory Emergencies		
	Cardiovascular Emergencies		
	Neurological Emergencies		
	Gastrointestinal and Urologic Emergencies		
Week 7	Endocrine and Hematologic Emergencies		
	Immunologic Emergencies		
	Toxicology		
	Psychiatric Emergencies		
Week 8	Gynecologic Emergencies		

	<p style="text-align: center; background-color: red; color: black; padding: 5px;">Module 3 Exam / Skills</p> <p style="text-align: center; background-color: #cccccc; padding: 5px;">Trauma Overview</p>		
Week 9	<p style="text-align: center; background-color: #add8e6; padding: 5px;">Clinicals</p> <p style="text-align: center; background-color: #add8e6; padding: 5px;">Clinicals</p> <p style="text-align: center; background-color: #add8e6; padding: 5px;">Clinicals</p>		
Week 10	<p style="text-align: center; padding: 5px;">Bleeding</p> <p style="text-align: center; background-color: #cccccc; padding: 5px;">Soft-Tissue Injuries</p> <p style="text-align: center; padding: 5px;">Face and Neck Injuries</p>		
Week 11	<p style="text-align: center; background-color: #cccccc; padding: 5px;">Head and Spine Injuries</p> <p style="text-align: center; padding: 5px;">Chest Injuries</p> <p style="text-align: center; background-color: #cccccc; padding: 5px;">Abdominal and Genitourinary Injuries</p>		
Week 12	<p style="text-align: center; padding: 5px;">Orthopaedic Injuries</p> <p style="text-align: center; background-color: #cccccc; padding: 5px;">Enviromental Emergencies</p> <p style="text-align: center; background-color: red; color: black; padding: 5px;">Module 4 Exam / Skills</p>		
Week 13	<p style="text-align: center; background-color: #cccccc; padding: 5px;">Obstetrics and Neonatal Care</p> <p style="text-align: center; padding: 5px;">Pediatric Emergencies</p> <p style="text-align: center; background-color: #cccccc; padding: 5px;">Geriatric Emergencies</p>		
Week 14	<p style="text-align: center; padding: 5px;">Patients with Special Challenges</p> <p style="text-align: center; background-color: #cccccc; padding: 5px;">Transport Operations</p>		
Week 15	<p style="text-align: center; padding: 5px;">Vehicle Extrication and Special Rescue</p> <p style="text-align: center; background-color: #cccccc; padding: 5px;">Incident Management</p> <p style="text-align: center; padding: 5px;">Terrorism and Diaster Management</p>		

Week 16	Skills		
	A Team Approach to Health Care		
	Module 5 Exam / Skills		

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

Affective Evaluation	20%
Chapter Quiz	30%
Module Examination	50%

GRADE SCALE

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

TECHNICAL REQUIREMENTS

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at <https://lit.edu/online-learning/online-learning-minimum-computer-requirements>. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at [Special Populations - Lamar Institute of Technology \(lit.edu\)](#).

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. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

STARFISH

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

ADDITIONAL COURSE POLICIES/INFORMATION

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. 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.
6. Additional class policies as defined by the EMS Program Student Handbook.

Course Outline

Orientation

- A. **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
- B. **Patient Assessment**
 - a. Patient Assessment
- C. **Airway**
 - a. Airway Management
- D. **Pharmacology**
 - a. Principles of Pharmacology
- E. **Shock and Resuscitation**
 - a. Shock
 - b. BLS Resuscitation
- F. **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
- G. **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
- H. **Special Patient Populations**
 - a. Obstetrics and Neonatal Care
 - b. Pediatric Emergencies
 - c. Geriatric Emergencies
 - d. Patients With Special Challenges
- I. **EMS Operations**
 - a. Transport Operations
 - b. Vehicle Extrication and Special Rescue

- c. Incident Management
- d. Terrorism Response and Disaster Management