

Emergency Medical Technician (EMSP 1501_6A1)



**LAMAR INSTITUTE
OF TECHNOLOGY**

INSTRUCTOR CONTACT INFORMATION

Instructor: Christopher Landry
Email: cblandry@lit.edu
Office Phone: 409-247-5090
Office Location: MPC 255
Office Hours: Upon Request

CREDIT

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

MODE OF INSTRUCTION

Hybrid

PREREQUISITE/CO-REQUISITE:

- EMSP 1260
- 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.

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.

Approved: 08/2024

- 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.
- 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 **978-1-284-20430-8**

Access to Google calendar – No cost to student.

See EMS Program Student Handbook and Clinical Handbook for equipment and uniform requirements. These are both found in your Blackboard course.

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. Attendance in this class is based on both students' presence, as well as students' participation in class.

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.

STUDENT EXPECTED TIME REQUIREMENT

For every hour in class (or unit of credit), students should expect to spend at least two to three hours per week studying and completing assignments outside of class. Online/Hybrid students should expect to spend at least as much time in this course as in the face-to-face class.

COURSE CALENDAR

Week	Date	Subject
Week 1	8-26-24	Orientation
	8-27-24	BLS Resuscitation
	8-28-24	EMS Systems / Workforce Safety & Wellness
Week 2	9-2-24	Labor Day Holiday
	9-3-24	Workforce Safety and Wellness
	9-4-24	Medical, Legal, and Ethical Issues
Week 3	9-9-24	Communications & Documentation / Clinical Orientation
	9-10-24	Patient Assessment
	9-11-24	Medical Terminology
Week 4	9-16-24	The Human Body
	9-17-24	Life Span Development / Lifting and Moving Patients
	9-18-24	MODULE 1 EXAM / Skills
Week 5	9-23-24	Airway Management
	9-24-24	Principles of Pharmacology
	9-25-24	Shock
Week 6	9-30-24	MODULE 2 EXAM / Skills
	10-1-24	Medical Overview
	10-2-24	Respiratory Emergencies
Week 7	10-7-24	Cardiovascular Emergencies
	10-8-24	Neurological Emergencies
	10-9-24	Gastrointestinal and Urologic Emergencies
Week 8	10-14-24	Endocrine and Hematologic Emergencies
	10-15-24	Immunologic Emergencies
	10-16-24	Toxicology
Week 9	10-21-24	Psychiatric Emergencies
	10-22-24	Gynecologic Emergencies
	10-23-24	Module 3 Exam / Skills
Week 10	10-28-24	Trauma Overview
	10-29-24	Bleeding
	10-30-24	Soft-Tissue Injuries
Week 11	11-4-24	Face and Neck Injuries
	11-5-24	Head and Spine Injuries
	11-6-24	Chest Injuries

Week 12	11-11-24 11-12-24 11-13-24	Abdominal and Genitourinary Injuries Orthopedic Injuries Environmental Emergencies
Week 13	11-18-24 11-19-24 11-20-24	Module 4 Exam / Skills Obstetric and Neonatal Care Pediatric Emergencies
Week 14	11-25-24 11-26-24 11-27-24	Geriatric Emergencies Patients with Special Challenges Thanksgiving Holiday
Week 15	12-2-24 12-3-24 12-4-24	Transport Operations / Vehicle Extrication and Special Rescue Incident Management Terrorism and Disaster Management
Week 16	12-9-24 12-10-24 12-11-24	Skills A Team Approach to Healthcare MODULE 5 EXAM / Skills

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

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

GRADE SCALE

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

ACADEMIC DISHONESTY

Students found to be committing academic dishonesty (cheating, plagiarism, or collusion) may receive disciplinary action. Students need to familiarize themselves with the institution's Academic Dishonesty Policy available in the Student Catalog & Handbook at <http://catalog.lit.edu/content.php?catoid=3&navoid=80#academic-dishonesty>.

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. It is advised that you use Chrome or Firefox as your browser.

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.

ARTIFICIAL INTELLIGENCE STATEMENT

Lamar Institute of Technology (LIT) recognizes the recent advances in Artificial Intelligence (AI), such as ChatGPT, have changed the landscape of many career disciplines and will impact many students in and out of the classroom. To prepare students for their selected careers, LIT desires to guide students in the ethical use of these technologies and incorporate AI into classroom instruction and assignments appropriately. Appropriate use of these technologies is at the discretion of the instructor. Students are reminded that all submitted work must be their own original work unless otherwise specified. Students should contact their instructor with any questions as to the acceptable use of AI/ChatGPT in their courses.

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. Phones will be placed at the front desk with your instructor on exam days in the computer lab, NO EXCEPTIONS!
3. Do not bring children to class.
4. Late assignments will not be accepted. All assignments have a posted due date and all assignments are due by 11:59pm on posted due date.
5. 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'.
6. 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.
7. Additional class policies as defined by the EMS Program Student Handbook.

BLACKBOARD ANNOUNCEMENTS

1. Announcements in Blackboard are posted to the Announcements web page that you see when you log into class. They are important, so be sure to read them.
2. Announcements are also emailed to your Blackboard email, which you can check at MyLIT.

MY RESPONSE TIME

1. I only answer my phone when I am in my office.
2. I only return calls that leave a voicemail due to excessive robocalls.
3. The best way to reach your instructor is through LIT email, thollaway@lit.edu.
4. I answer emails within 24 hours, except those received outside of office hours, during the weekend or campus holidays.

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. Orthopedic 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