

Emergency Medical Technician (EMSP 1501_6B1)

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.
- 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.



**LAMAR INSTITUTE
OF TECHNOLOGY**

- 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.

INSTRUCTOR CONTACT INFORMATION

Instructor:	Mike Barth
Email:	mbarth@lit.edu
Office Phone:	409-247-5090
Office Location:	MPC 242
Office Hours:	By Appointment

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 by the specified date as listed in the College Calendar on the [Student Success](#) web page. 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.

FINAL EXAM

At the end of the course, a comprehensive final exam will be administered. Students must score 80% or better to pass the course. For students who do not meet this score on their exam, one re-test opportunity will be provided along with an optional meeting with the instructor to review the exam and identify areas where further study is needed. Students that have an overall average of 90% or higher can be exempted from the final exam if they so choose.

COURSE CALENDAR (16 WEEKS) January 27, 2025 – May 14, 2025

DATE	TOPIC	Chapters	DUE DATE
Week 1 08/24/2026	Orientation BLS Resuscitation	Chapter 14	08/30/2026
08/26/2026	Beaumont Fire Lucas Demo EMS Systems Workforce Safety and Wellness	Chapter 1 Chapter 2	08/30/2026
Week 2 08/31/2026	Medical, Legal and Ethical Issues Communications & Documentation Medical Terminology	Chapter 3 Chapter 4 Chapter 5	09/06/2026
09/02/2026	Module 1 Exam, Ch. 1-5 & 14 Clinical Orientation Patient Assessment The Human Body	Chapter 10 Chapter 6	09/06/2026
Week 3 09/09/2026	Lifespan Development Lifting and Moving Patients VITAL SIGNS SKILLS	Chapter 7 Chapter 8	09/13/2026
Week 4 09/14/2026	Module 2 EXAM, Ch. 6-8, 10 Airway Management Patient Assessment Lab	Chapter 11	09/20/2026
09/16/2026	Principles of Pharmacology Medical Overview	Chapter 12 Chapter 15	09/20/2026

Week 5 09/21/2026	Module 3 EXAM, Ch. 11, 12, 15 Respiratory Emergencies Lung Sounds Lab	Chapter 16	09/27/2026
09/23/2026	Cardiovascular Emergencies	Chapter 17	09/27/2026
Week 6 09/28/2026	Shock Neurological Emergencies Gastrointestinal, Urologic Emergencies	Chapter 13 Chapter 18 Chapter 19	10/04/2026
09/30/2026	Endocrine and Hematologic Emergencies Allergies & Anaphylaxis Toxicology	Chapter 20 Chapter 21 Chapter 22	10/04/2026
Week 7 10/05/2026	Module 4 EXAM, Ch. 13, 16-22 Airway and Medical SKILLS		
10/07/2026	Airway and Medical Simulations		
Week 8 10/12/2026	Trauma Overview Bleeding Soft Tissue Injuries	Chapter 25 Chapter 26 Chapter 27	10/18/2026
10/14/2026	Face and Neck Injuries Head and Spine Injuries	Chapter 28 Chapter 29	10/18/2026
Week 9 10/19/2026	Chest Injuries Abdominal and Genitourinary Injuries	Chapter 30 Chapter 31	10/25/2026
10/21/2026	Orthopedic Injuries Environmental Injuries	Chapter 32 Chapter 33	10/25/2026
Week 10 10/26/2026	Module 5 EXAM, Ch. 25-33 Psychiatric Emergencies	Chapter 23	11/01/2026
10/28/2026	Gynecological Emergencies Obstetrics and Neonatal Care	Chapter 24 Chapter 34	11/01/2026
Week 11 11/02/2026	Water Rescue Lab Simulations		
11/04/2026	Pediatric Emergencies Patients with Special Challenges	Chapter 35 Chapter 37	11/08/2026
Week 12 11/09/2026	Module 6 EXAM, Ch. 23-24, 34-37 A Team Approach to Healthcare	Chapter 9	11/15/2026
11/11/2026	Incident Management Terrorism and Disaster Management	Chapter 40 Chapter 41	11/15/2026

Week 13 11/16/2026	Trauma Skills Simulations		
11/18/2026	Transport Operations Vehicle Extrication and Special Rescue	Chapter 38 Chapter 39	11/22/2026
Week 14 11/23/2026	Module 7 EXAM, Ch. 9, 38-41		
Week 15 11/30/2026	Trauma and Medical Patient Assessments		
12/02/2026	Presentation of Group Capstone Project		12/02/2026
Week 16 12/07/2026	CRA and Awards Ceremony		
12/09/2026	CRA Re-Test		

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

Chapter Quizzes and Homework 20%

Module Exams and Skills 30%

Affective Domain 20%

Final Exam and Skills 30%

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

For the latest technical requirements, including hardware, compatible browsers, operating systems, etc., review the Minimum Computer and Equipment Requirements on the [LIT Online Experience](#) page. 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.

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 11:59 pm 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' unless previously approved by the instructor.
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.
8. Food may not be delivered to the classroom during class hours. Food delivery may be made during lunch hours only.
9. In the event of a class cancellation, the schedule may be adjusted to avoid missed subjects.

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, mbarth@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. Life Span Development
- B. **Patient Assessment**
 - a. The Human Body
 - b. Patient Assessment
 - c. Life Span Development
 - d. Lifting and Moving Patients
- 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
- 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. Behavioral Emergencies
 - b. Gynecological Emergencies
 - c. Obstetrics and Neonatal Care
 - d. Patients with Special Challenges
- I. **EMS Operations**
 - a. Team Approach to Healthcare
 - b. Transport Operations

- c. Vehicle Extrication and Special Rescue
- d. Incident Management
- e. Terrorism Response and Disaster Management