



**LAMAR INSTITUTE  
OF TECHNOLOGY**

## Trauma Management EMSP 1355

### **INSTRUCTOR CONTACT INFORMATION**

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Office Location:	MPC 255
Office Hours:	Upon Request

### **CREDIT**

3 Semester Credit Hours (2 hours lecture, 2 hours lab)

### **MODE OF INSTRUCTION**

Face to Face

### **PREREQUISITE/CO-REQUISITE:**

#### Prerequisite

- EMT-Basic certification

#### Co-requisite

- EMSP 1338
- EMSP 1356
- EMSP 2137
- EMSP 2205

### **COURSE DESCRIPTION**

Knowledge and skills in the assessment and management of patients with traumatic injuries.

### **COURSE OBJECTIVES**

Upon completion of this course, the student will be able to

- Integrate assessment findings with principles of epidemiology and pathophysiology to formulate a field impression to implement a comprehensive treatment/disposition for an acutely injured patient.
- Complex depth, comprehensive breadth of pathophysiology, assessment and management of the trauma patient including trauma scoring and transport

decisions.

- Complex depth, comprehensive breadth of pathophysiology, assessment, and management of bleeding.
- Complex depth, comprehensive breadth of pathophysiology, assessment, and management of chest trauma including;
  - Traumatic aortic disruption
  - Pulmonary contusion
  - Blunt cardiac injury
  - Hemothorax
  - Pneumothorax
  - Cardiac tamponade
  - Rib fractures
  - Flail chest
  - Commotio cordis
  - Tracheobronchial disruption
  - Diaphragmatic rupture
  - Traumatic asphyxia
- Complex depth, comprehensive breadth of pathophysiology, assessment, and management of abdominal and genitourinary trauma including;
  - Vascular injury
  - Solid and hollow organ injuries
  - Blunt versus penetrating mechanisms
  - Evisceration
  - Retroperitoneal injuries
  - Injuries to the external genitalia
- Fundamental depth, foundational breadth of pathophysiology, assessment, and management of orthopedic trauma to include;
  - Pediatric fractures
  - Tendon lacerations/transections/rupture
  - Compartment syndrome
- Complex depth, foundational breadth of pathophysiology, assessment, and management of orthopedic trauma to include;
  - Upper and lower extremity orthopedic trauma
  - Open fractures
  - Closed fractures
  - Dislocations
- Complex depth, comprehensive breadth of pathophysiology, assessment, and management of environmental emergencies to include;
  - Near-drowning
  - Temperature-related illness

- Bites and envenomation
  - Dysbarism
  - Electrical injury
  - High altitude illness
- Complex depth, comprehensive breadth of pathophysiology, assessment, and management of multi-system trauma to include;
  - Multi-system trauma
  - Blast injuries
- Use universal precautions and body substance isolation (BSI) procedures during medication administration.
- Demonstrate the assessment and management of a patient with signs and symptoms of external hemorrhage.
- Demonstrate how to apply a commercial tourniquet.
- Demonstrate the assessment and management of a patient with signs and symptoms of internal hemorrhage.
- Demonstrate the assessment and management of a patient experiencing hemorrhagic shock.
- Demonstrate the assessment and management of a patient with signs and symptoms of soft-tissue injuries.
- Demonstrate how to care for a burn.
- Demonstrate the emergency medical care of a patient with a thermal burn.
- Demonstrate the emergency medical care of a patient with a thermal inhalation burn.
- Demonstrate the emergency medical care of a patient with a chemical burn of the skin.
- Demonstrate the emergency medical care of a patient with an inhalation burn from other toxic chemicals.
- Demonstrate the emergency medical care of a patient with a chemical burn of the eye.
- Demonstrate the emergency medical care of a patient with an electrical burn.
- Demonstrate the emergency medical care of a patient with a radiation burn.
- Demonstrate the care of a patient who has a penetrating eye injury.
- Demonstrate the stabilization of a foreign object that has impaled the eye.
- Demonstrate irrigation of a patient's eye using a nasal cannula, bottle, or basin.
- Demonstrate how to control bleeding from a neck injury.
- Demonstrate how to remove a helmet from a patient with a suspected head or spinal injury.
- Describe the steps to take in the assessment of a patient with suspected chest trauma.
- Demonstrate the management of a patient with a tension pneumothorax using needle decompression.
- Demonstrate proper emergency medical care of a patient who has experienced a blunt abdominal injury.

- Demonstrate how to apply a dressing to an abdominal evisceration wound.
- Demonstrate proper emergency care of a patient who has a penetrating abdominal injury with an impaled object.
- Demonstrate how to treat a patient with heat cramps.
- Demonstrate how to treat a patient with heat exhaustion.
- Demonstrate how to treat a patient with heatstroke.

**REQUIRED TEXTBOOK AND MATERIALS**

- EMS Program Student Handbook
- Nancy Caroline’s Emergency Care in the Streets 8<sup>th</sup>
  - ISBN 13: 9781284137187

**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 by the specified drop date as listed on the [Academic Calendar](#). 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. For a 3-credit-hour class, students should prepare to allocate approximately six to nine hours per week outside of class in a 16-week session OR approximately twelve to eighteen hours in an 8-week session. Online/Hybrid students should expect to spend at least as much time in this course as in the traditional, face-to-face class.

**COURSE CALENDAR**

DATE	TOPIC	READINGS (Due on this Date)	ASSIGNMENTS (Due on this Date)
1/17	SKILLS		
1/19	SKILLS		
1/24	Trauma systems and Mechanism of Injury	1/23	1/23
1/26	Bleeding	1/25	1/25
1/31	Bleeding		
2/2	Soft Tissue Trauma	2/1	2/1
2/7	Soft Tissue Trauma		
2/9	Soft Tissue Trauma		

2/14	Burns	2/131	2/13
2/16	Burns		
2/21	Burns		
2/23	Face and Neck Trauma	2/22	2/22
2/28	Face and Neck Trauma		
3/2	Face and Neck Trauma		
3/7	MID TERM		
3/9	MID TERM		
3/21	Head and Spine Trauma	3/20	3/20
3/23	Head and Spine Trauma		
3/28	Head and Spine Trauma		
3/30	Chest Trauma	3/29	3/29
4/4	Chest Trauma		
4/6	Chest Trauma		
4/11	Abdominal and Genitourinary Trauma	4/10	4/10
4/13	Abdominal and Genitourinary Trauma		
4/18	Abdominal and Genitourinary Trauma		
4/20	Orthopedic Trauma	4/19	4/19
4/25	Orthopedic Trauma		
4/27	Orthopedic Trauma		
5/2	Environmental Emergencies	5/1	5/1
5/4	Environmental Emergencies		
5/9	FINAL		
5/11	FINAL		

### **COURSE EVALUATION**

Final grades will be calculated according to the following criteria:

- |                      |     |
|----------------------|-----|
| Affective Evaluation | 15% |
| Chapter Quiz         | 30% |
| Mid-Term Exam        | 25% |
| Final Exam           | 30% |

### **GRADING SCALE**

90 – 100	A
84 – 89	B
75 – 83	C

70 – 74        D  
0 – 69        F

LIT does not use +/- grading scales

### **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.

### **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](mailto: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](http://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**

- Computers, telephones, headphones, and any other electronic devices must be turned off while in class or used only with permission of the instructor.
  1. Do not bring children to class.
  2. Late assignments will be accepted on a case by case basis.
  3. 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'.
  4. 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.
  5. Additional class policies as defined by the EMS Program Student Handbook.