

## Emergency Pharmacology (EMSP 2206) Lecture

### **CREDIT**

2 Semester Credit Hours (1 hours lecture, 0 hours lab)

### **MODE OF INSTRUCTION**

Face to Face, Online or Hybrid

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

EMT Basic or Advanced

EMSP 1356

EMSP 1338

EMSP 1355

EMSP 2444

### **COURSE DESCRIPTION**

A study of drug classifications, actions, therapeutic uses, adverse effects, routes of administration, and calculation of dosages.

### **INSTRUCTOR CONTACT INFORMATION**

Instructor: Jolene Thompson

Email: jmonse@lit.edu

Office Phone: 409-247-5090

Office Location: MPC 245

Office Hours: Upon Request

### **REQUIRED TEXTBOOK AND MATERIALS**

EMS Program Student Handbook

Nancy Caroline's Emergency Care in the Streets 9th

ISBN: 9781284274004

Platinum Planner

EMS Testing

### **ATTENDANCE POLICY**

Three absences are allowed. If a student is tardy to class or departs early three (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.

Approved: **Initials/date**



**LAMAR INSTITUTE  
OF TECHNOLOGY**

**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)
6/1/2023	Principles of Pharmacology		
6/6/2023	Emergency Medications		Activated Charcoal Adenosine
6/8/2023	Principles of Pharmacology	Objectives 1-5	Albuterol Amiodaron
6/13/2023	Emergency Medications		Aspirin Atropine
6/15/2023	Principles of Pharmacology	Objectives 6-10	Dextrose Diazepam
6/20/2023	Emergency Medications		Diphenhydramine Dopamine
6/22/2023	Principles of Pharmacology	Objectives 11-15	Epinephrine
6/27/2023	Emergency Medications		Fentanyl Glucagon
6/29/2023	Mid Term		
7/6/2023	Medication Administration	Objectives 1-4	Ipratropium bromide Lidocaine
7/11/2023	Medication Administration	Objectives 5-10	Lorazepam Magnesium sulfate
7/13/2023	Medication Administration	Objectives 11-15	Midazolam Morphine
7/18/2023	Medication Administration	Objectives 16-20	Naloxone Nitro
7/20/2023	Medication Administration	Objectives 21-25	Oxygen Promethazine
7/25/2023	Medication Administration	Objectives 26- 30	Sodium bicarb procainamide
7/27/2023	Medication Administration	Objectives 31-35	Calcium Chloride Tylenol Lasix
8/1/2023	Medication Administration		Levophed Ketamine
8/3/2023	Medication Administration		Labetalol Metoprolol
8/8/2023	Medication Administration		Etomidate Thiamine

8/10/2023	Final		
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### **COURSE EVALUATION**

Final grades will be calculated according to the following criteria:

Chapter Quiz/Test	20%
Discussion	15%
Mid-Term Exam	25%
Final Exam	30%
Affective Evaluation	10%

### **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](mailto:specialpopulations@lit.edu). You may also visit the online resource at [Special Populations - Lamar Institute of Technology \(lit.edu\)](https://lit.edu/specialpopulations).

### **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**

1. No food, drinks, or use of tobacco products in class.
2. Computers, telephones, headphones, and any other electronic devices must be turned off while in class or used only with permission of the instructor.
3. Do not bring children to class.
4. No late assignments will be accepted.
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 EMS Program Student Handbook.

## **COURSE OBJECTIVES**

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

1. Explain how pharmacology relates to paramedic clinical practice.
2. Describe the regulatory measures affecting medications administered in the prehospital setting.
3. Describe how drugs are classified.
4. List the components of a medication profile.
5. Discuss requirements for medication storage.
6. Describe the pharmacokinetic and pharmacodynamics properties of medications in general.
7. Identify situations in which medication effects will be altered by the age, sex, weight, and other characteristics of a particular patient.
8. Present steps to reduce the incidence of medication errors and limit the severity of harmful effects associated with medication administration.
9. Discuss the prevention, recognition, and management of adverse medication reactions.
10. Select the optimal medication and method of medication administration for patients with a particular clinical condition or situation.

- 11.** Describe specific medications used by paramedics in the prehospital setting.
- 12.** Describe the use of standard precautions related to medication administration.
- 13.** List commonly used intravenous (IV) fluid compositions and types of IV solutions.
- 14.** Discuss the techniques for performing IV therapy.
- 15.** Discuss the techniques for performing medication administration via differing routes.
- 16.** Explain the principles of drug dose calculations, including desired dose, concentration on hand, volume on hand, volume to administer, and IV drip-rate.