Emergency Pharmacology (EMSP 2206) Lecture

INSTRUCTOR CONTACT INFORMATION

Instructor: Danielle Moore

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Office Phone: 409-245-8652

Office Location: MPC 243

Office Hours: Upon Request

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.

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

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)
1/23	Emergency Medications		
1/25	Emergency Medications		Adenosine
1/30	Principles of Pharmacology		Albuterol Amiodaron
2/06	Emergency Medications	OUTLINE SEC 1-3 1/26	Atropine
2/08	Principles of Pharmacology		Dextrose Diazepam
2/13	Emergency Medications	OUTLINE SEC 4	Diphenhydramine
2/15	Principles of Pharmacology		Epinephrine
2/20	Emergency Medications		Fentanyl
2/22	Emergency Medications		Dopamine
2/27	Principles of Pharmacology	OUTLINE SEC 5-6	Ipratropium bromide Lidocaine
2/29	Principles of Pharmacology		Lorazepam Magnesium sulfate
3/05	Principles of Pharmacology		Midazolam Morphine
3/07	Principles of Pharmacology		Naloxone
3/19	Principles of Pharmacology		Oxygen Promethazine
3/7	Mid Term	OUTLINE SEC 7	Sodium bicarb
3/19	Medication Administration		Calcium Chloride
3/21	Medication Administration	Objectives 1-4	Ketamine
3/26	Medication Administration		Labetalol Metoprolol
3/28	Medication Administration	Objectives 5-10	Etomidate
4/2	Medication Administration	Objectives 11-15	Aspirin

4/4	Medication Administration	Case study ch 14	Activated Charcoal
4/9	Medication Administration	Objectives 16-20	Thiamine
4/11	Medication Administration		Lasix
4/16	Medication Administration	Objectives 21-25	procainamide
4/18	Medication Administration		Nitro
4/23	Medication Administration	Objectives 26- 30	Glucagon
4/25	Medication Administration	Case study ch 15	Levophed
4/30	Medication Administration	Objectives 31-35	Tylenol
5/2	SKILLS		
5/7	FINAL		
5/9	PALS		

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

Chapter Quiz/Test	20%
Mid-Term Exam	30%
Final Exam	35%
Affective Evaluation	15%

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. 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.