

CLINICAL- EMERGENCY MEDICAL TECHNICIAN-PARAMEDIC (EMSP 2262)

CREDIT

2 Semester Credit Hours (0 hours lecture, 0 hours lab, 12 External)

MODE OF INSTRUCTION

Face to Face, Online or Hybrid

PREREQUISITES

EMT-Basic or Advanced

CO-REQUISITES

EMSP 2444 – Cardiology
EMSP 1455 – Trauma Management

COURSE DESCRIPTION

A health-related; work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

COURSE OBJECTIVES

Upon completion of this course, the student must complete the following Student Minimum Competencies (SMC). The following is available through your Sterling Credentials account.

- A. Cumulative Motor Skill Competency: The student must proficiently demonstrate the ability to safely and successfully complete the following minimum skill sets during clinicals as follows: (Table 3, column 2 in SMC)

SKILL	EMSP 2262 Summer 2024	EMSP 2368 Fall 2024
Establish IV access	15	10
Administer IV Bolus Medication	5	5
Perform Oral endotracheal Intubation	0	10
Administer IV Infusion Medication	2	0
Administer IM injection	2*	2*
Establish IO Access	0	2
Perform PPV with BVM	5	5
Perform Endotracheal Suctioning	2	0
Perform FBAO using McGill forceps	2*	2*
Perform cricothyrotomy	0	2
Insert supraglottic airway	0	10
Perform needle decompression	0	2
Perform synchronized cardioversion	2*	2*



Perform defibrillation	2*	2*
Perform transcutaneous pacing	2*	2*
Perform chest compressions	2	0

*Skills can be completed during EMSP 2262 OR during EMSP 2368.

- B. Ages: The student must proficiently demonstrate the ability to safely and successfully complete the minimum number of patient contacts within the following age groups: (Age Table 1 in SMC)

AGES	EMSP 2262 Summer 2024	EMSP 2368 Fall 2024
Pediatric patients	15	15
Adult patients	30	30
Geriatric patients	9	9

- C. Pathology or Complaint: The student must proficiently demonstrate the ability to safely and successfully complete the following minimum patient conditions:

PATHOLOGIES/CONDITIONS	EMSP 2262 Summer 2024 (Table 2, column 1)	EMSP 2368 Fall 2024 (Table 2, column 2)
Trauma patients	18	9
Psychiatric/Behavioral patients	12	6
OB delivery with normal newborn care	2*	2*
OB delivery, complicated	2*	2*
Distressed Neonate (birth to 30 days)	2*	2*
Cardiac pathology or complaint (e.g. acute coronary syndrome, cardiac chest pain)	12	6
Cardiac arrest	2	1
Cardiac dysrhythmias	10	6
Medical neurologic pathologies/complaints (e.g. transient ischemic attack, stroke, syncope, or altered mental state presentation)	8	4
Respiratory pathologies/complaints (e.g. respiratory distress, respiratory failure, respiratory arrest, acute asthma episode, lower respiratory infection)	8	8

Other medical conditions/complaints (e.g. gastrointestinal, genitourinary, gynecologic, reproductive pathologies, or abnormal pain complaints, infectious disease, endocrine disorders or complaints (hypoglycemia, DKA, HHNS, thyrotoxic crisis, myxedema, Addison's, Cushing's), overdose or substance abuse, toxicology, hematologic disorders, non-traumatic musculoskeletal disorders, disease of the eyes, ears, nose and throat)	12	6
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*Condition may be substituted with simulation.

D. Field Experience / Capstone Field Internship: The student must proficiently demonstrate competent scene and patient management as follows: (Table 4)

FIELD EXPERIENCE	EMSP 2262 Summer 2024 (Table 2, column 1)	EMSP 2368 Fall 2024 (Table 2, column 2)
Field Experience (Conducts competent assessment and management of prehospital patients with assistance while TEAM LEADER or TEAM MEMBER)	0	30
Capstone Field Internship (Successfully manages the scene, performs patient assessment(s), directs medical care and transport as TEAM LEADER with minimal to no assistance)	0	20

E. Affective Skills

1. While in the clinical setting, the student must demonstrate integrity.
 - a. The student must demonstrate honesty and trustworthiness.
 - b. The student must maintain confidentiality.
 - c. The student must accurately complete documentation.
2. While in the clinical setting, the student must demonstrate empathy.
 - a. The student will respond appropriately to the emotional needs of the patients/family members and the health care team.

- b. The student will demonstrate respect for others.
 - c. The student will demonstrate a calm, compassionate, and helpful demeanor.
3. While in the clinical setting, the student must demonstrate self-motivation.
- a. The student will take initiative to complete assignments.
 - b. The student will seek out learning experiences
 - c. The student will take initiative to improve and/or correct behavior
 - d. The student will take on/follow through on tasks with minimal supervision.
 - e. The student will show enthusiasm for learning and improvement.
 - f. The student will strive for excellence in all aspects of patient care and professional activities.
 - g. The student will accept constructive feedback in a positive manner.
4. While in the clinical setting, the student will demonstrate proper appearance and personal hygiene.
- a. The student will wear neat, clean, well-maintained clothing and/or uniform.
 - b. The student will demonstrate good personal hygiene and grooming.
 - c. The student will wear proper uniform and identification.
5. While in the clinical setting, the student will demonstrate self-confidence.
- a. The student will demonstrate the ability to trust personal judgment.
 - b. The student will demonstrate an awareness of strengths and limitations.
 - c. The student will exercise good personal judgment.
6. While in the clinical setting, the student will demonstrate adequate communication skills.
- a. The student will speak clearly, write legibly, and listen actively.
 - b. The student will document a complete and accurate patient care report.

- c. The student will communicate effectively with Medical Control
 - d. The student will adjust communication strategies as needed.
7. While in the clinical setting, the student will demonstrate effective time management.
- a. The student will demonstrate consistent punctuality.
 - b. The student will complete tasks and assignments on time.
8. While in the clinical setting, the student will demonstrate teamwork and diplomacy.
- a. The student will place the success of the team above self-interest.
 - b. The student will help and support other team members.
 - c. The student will show respect for all team members.
 - d. The student will remain flexible and open to change.
 - e. The student will communicate effectively with others to resolve problems.

INSTRUCTOR CONTACT INFORMATION

Instructor: Tammie Hollaway
Email: thollaway@lit.edu
Office Phone: 409-247-4851
Office Location: MPC 244
Office Hours: Upon Request

REQUIRED TEXTBOOK AND MATERIALS

EMS Program Clinical Handbook
Sterling Credentials LLC
Platinum Planner EMS Testing
EMSP Program Clinical Uniform
Stethoscope

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

Psychomotor Skills	10%
Ages	10%
Pathologies	25%
Field Experience	10%
Affective	20%
Quality of patient care reports	25%

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

- Student must meet required number of clinical patient contacts, as required by the Texas Department of State Health Services, CoAEMSP and EMSP Program guidelines.
- Patient care reports for all required patient contacts, as required by the Texas Department of State Health Services, CoAEMSP and EMS Program guidelines.
- Students must maintain a 75% grade average in all EMSP courses.
- Student that has not met all stated goals may receive an Incomplete "I". The grade of "I" may be assigned at the discretion of the instructor. A grade of "I" is intended to be assigned when the student is unable to complete some course work as a result of unusual circumstances. An "I" is not intended to allow a student to repeat a course. Plans to complete deficiencies in a course should be made with the instructor. Incomplete course work must be finished during the following long semester. If course work is not completed during the long semester, the Office of Records will change the "I" grade to the grade of "F." The course must then be repeated if credit is denied. An "I" grade also automatically becomes an "F" if the student re-registers for the course before removing the deficiencies and receiving a grade change.
- See EMS Program Student handbook for specific course policies.

COURSE OUTLINE

- A. Introduction
 1. Introduction of EMS Staff, Instructors and students.
 2. EMS program policies.
- B. Clinical Orientation
 1. All immunization records, physical exam results, drug screen, criminal background check must be submitted before attending clinicals.

CLINICAL REQUIREMENTS

1. Emergency Room

Student will be scheduled for 60 contact hours.

Purpose:

It is the purpose of this rotation is to assess patients presenting with various medical problems in a medically supervised facility. It is at the preceptor's discretion which skills and medications the student may perform/administer during their clinical rotations.

During the clinical rotations in the ED, the student will:

2. Utilize appropriate universal precautions at all times.
3. Assist in the triage of patients.
4. Perform a patient assessment, including:
 - a. Vital signs, pulse oximetry and glucose check
 - b. Obtain chief complaint and history of present illness.
 - c. Perform a physical exam.
 - d. Obtain medical history.
5. Demonstrate proper airway management and oxygen therapy.
6. Discuss and demonstrate proper IV therapy and technique, as well as blood draws.
7. Discuss and demonstrate knowledge of medication prior to administration, including looking up the medication for the following: indications, contraindications, proper dosage, side effects, calculations of dosage and proper administration technique (SQ, IV, IM, SL, nebulized or ET). Only administer the medication under direct supervision of the RN, MD, or LIT preceptor. Never administer a medication you have not looked up.
8. Assist with the following: hemorrhage control, splinting techniques and cardiac arrest patients (CPR, BVM, medications administration, nasogastric tubes, and orogastric tubes).

2. Cardiac Cath Lab

Student will be scheduled for 4 contact hours.

Purpose:

It is the purpose of this rotation to assess the cardiac patient. It is at the preceptor's discretion which skill and medications the student may perform/administer during their clinical rotations.

During the clinical rotations in the cardiac catheterization lab the student will:

- a. Utilize appropriate universal precautions as all times
- b. Perform a patient assessment, including:

- i. Vital signs, pulse oximetry and glucose check.
- ii. Review of chief complaint and medical history.
- c. Demonstrate proper airway management and oxygen therapy as needed.
- d. Discuss and demonstrate knowledge of medication prior to administration, including: indications, contraindications, proper dosage, side effects, calculations of dosage, proper administration technique (SQ, IV, IM, SL, nebulized and ET) under the direct supervision of the RN, MD, or LIT preceptor.
- e. Observe procedures such as angiogram test, angioplasty and cardiac stents.
- f. Perform post procedural patient assessment.

3. Outpatient Day Surgery

Student will be scheduled for 4 contact hours.

Purpose:

It is the purpose of this rotation to assess the out-patient surgical patient. It is at the preceptor's discretion which skill and medications the student may perform/administer during their clinical rotations.

During the clinical rotations in the out-patient surgical department the student will:

- a. Utilize appropriate universal precautions as all times
- b. Perform a patient assessment, including:
 - i. Vital signs, pulse oximetry and glucose check.
 - ii. Obtain chief complaint and history of present illness.
 - iii. Perform a physical exam.
 - iv. Obtain a medical history.
- c. Demonstrate proper airway management and oxygen therapy
- d. Discuss and demonstrate proper IV therapy and technique.
- e. Discuss and demonstrate knowledge of medication prior to administration, including: indications, contraindications, proper dosage, side effects, calculations of dosage, proper administration technique (SQ, IV, IM, SL, nebulized and ET) under the direct supervision of the RN, MD, or LIT preceptor.

4. Medical Director/ Emergency Department Physician

Student will be scheduled 8 contact hours.

Purpose:

It is the purpose of this rotation is to assess patients presenting with various medical problems across all age ranges, in a medically supervised facility. The student will shadow the EMS Program Medical Director/Emergency Department Physician in the Emergency Department. It is at the Medical Director discretion which skills and medications the student may perform/administer during the clinical rotation.

During the clinical rotations with the Medical Director/Emergency Department Physician, the student will:

- a. Utilize appropriate universal precautions at all times.
- b. Assist in the triage of patients.
- c. Perform a patient assessment, including:
 - i. Vital signs, pulse oximetry and glucose check
 - ii. Obtain chief complaint and history of present illness.
 - iii. Perform a physical exam.
 - iv. Obtain medical history.
- d. Demonstrate proper airway management and oxygen therapy.
- e. Discuss and demonstrate proper IV therapy and technique, as well as blood draws.
- f. Discuss and demonstrate knowledge of medication prior to administration, including looking up the medication for the following: indications, contraindications, proper dosage, side effects, calculations of dosage and proper administration technique (SQ, IV, IM, SL, nebulized or ET). Only administer the medication under direct supervision of the Medical Director or RN.

5. Psychiatric Emergency Room

Student will be scheduled 24 contact hours.

Purpose:

It is the purpose of this rotation is to assess patients presenting with various psychiatric/medical problems across all age ranges, in a medically supervised facility. The student will shadow the psychiatric staff in the Psychiatric/Emergency Department. It is at the Charge RN discretion which skills and medications the student may perform/administer during the clinical rotation.

During the clinical rotations with the Psychiatric/Emergency RN, the student will:

- a. Utilize appropriate universal precautions at all times.
- b. Assist in the triage of patients.
- c. Perform a patient assessment, including:
 - i. Vital signs, pulse oximetry and glucose check
 - ii. Obtain chief complaint and history of present illness.
 - iii. Perform a physical exam.
 - iv. Obtain medical history.
- d. Demonstrate proper airway management and oxygen therapy.
- e. Discuss and demonstrate proper IV therapy and technique, as well as blood draws.
- f. Discuss and demonstrate knowledge of medication prior to administration, including looking up the medication for the following: indications, contraindications, proper dosage, side effects, calculations of dosage and proper

administration technique (SQ, IV, IM, SL, nebulized or ET). Only administer the medication under direct supervision of the Physician or RN.

6. Intensive Care Unit

Student will be scheduled 12 contact hours.

Purpose:

It is the purpose of this rotation to assess the ICU patient. It is at the preceptor's discretion which skill and medications the student may perform/administer during their clinical rotations.

During the clinical rotations in the Intensive Care Unit the student will:

1. Utilize appropriate universal precautions as all times
2. Perform a patient assessment, including:
 - a. Vital signs, pulse oximetry and glucose check.
 - b. Review of chief complaint and medical history.
3. Demonstrate proper airway management and oxygen therapy as needed.
4. Discuss and demonstrate knowledge of medication prior to administration, including: indications, contraindications, proper dosage, side effects, calculations of dosage, proper administration technique (SQ, IV, IM, SL, nebulized and ET). Only administer the medication under direct supervision of the Physician or RN.
5. Observe procedures such as angiogram test, angioplasty and cardiac stents.
6. Perform post procedural patient assessment.

7. Obstetrics Unit

Student will be scheduled 16 contact hours.

Purpose:

It is the purpose of this rotation is to assess patients presenting with various Obstetrics across all age ranges, in a medically supervised facility. It is at the preceptor's discretion which skills and medications the student may perform/administer during their clinical rotations.

During the clinical rotation in the Obstetrics Department, the student will:

1. Utilize appropriate universal precautions at all times.
2. Perform a patient assessment, including:
 - a. Vital signs, pulse oximetry and glucose check.
 - b. Obtain chief complaint and history of present illness.
 - c. Perform a physical exam.
 - d. Obtain a medical history.
3. Demonstrate proper airway management and oxygen therapy, including assisting with the care of patients with either mechanical ventilators or trachs (i.e. suctioning, BVM or NGT/OGT).

4. Discuss and demonstrate knowledge of medication prior to administrations, including: indications, contraindications, proper dosage, side effects, calculations of dosage, proper administration technique (SQ, nebulized and ET). Only administer the medication under direct supervision of the Physician or RN.

8. Neonatal Intensive Care Unit

Student will be scheduled 16 contact hours.

Purpose:

- F. It is the purpose of this rotation to assess the Nursery/Neonatal patient. It is at the preceptor's discretion which skill and medications the student may perform/administer during their clinical rotations.

During the clinical rotations in the Nursery/Neonatal department the student will:

1. Utilize appropriate universal precautions as all times
2. Perform a patient assessment, including:
 - a. Vital signs, pulse oximetry and glucose check.
 - b. Obtain chief complaint and history of present illness.
 - c. Perform a physical exam.
 - d. Obtain a medical history.
3. Demonstrate proper airway management and oxygen therapy
4. Discuss and demonstrate proper IV therapy and technique.
5. Discuss and demonstrate knowledge of medication prior to administration, including: indications, contraindications, proper dosage, side effects, calculations of dosage, proper administration technique (SQ, IV, IM, SL, nebulized and ET). Only administer the medication under direct supervision of the Physician or RN.

9. Nursery Unit

Student will be scheduled 16 contact hours.

Purpose:

- G. It is the purpose of this rotation to assess the Nursery/Neonatal patient. It is at the preceptor's discretion which skill and medications the student may perform/administer during their clinical rotations.

During the clinical rotations in the Nursery/Neonatal department the student will:

1. Utilize appropriate universal precautions as all times
2. Perform a patient assessment, including:
 - a. Vital signs, pulse oximetry and glucose check.
 - b. Obtain chief complaint and history of present illness.
 - c. Perform a physical exam.
 - d. Obtain a medical history.
3. Demonstrate proper airway management and oxygen therapy
4. Discuss and demonstrate proper IV therapy and technique.

5. Discuss and demonstrate knowledge of medication prior to administration, including: indications, contraindications, proper dosage, side effects, calculations of dosage, proper administration technique (SQ, IV, IM, SL, nebulized and ET). Only administer the medication under direct supervision of the Physician or RN.