Introduction to Advanced Practice EMSP 1356 (Lab)

Credit
- 5 Credit Hours; 8 Lab Hours

Prerequisite
- 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.

Co-requisite
- EMSP 1160

Course Description
Preparation for certification as an Emergency Medical Technician (EMT).

Required Textbook and Materials
- *Emergency Care & Transportation of Sick and Injured* by AAOS, 11th edition. Jones & Bartlett Publishers.

    a. ISBN number is 978-1-284-10690-9.

- See EMS Program Student Handbook for equipment and uniform requirements.

- FISDAP

Course Objectives[1]
Upon completion of this course, the student will be able to:
- Demonstrate how to properly remove gloves.
- Demonstrate the steps necessary to take to manage a potential exposure situation.
- Demonstrate the techniques of successful cross-cultural communication.
- Demonstrate how to make a simulated, concise radio transmission with dispatch.
- Demonstrate how to perform a power lift to lift a patient.
- Demonstrate a power grip.
- Demonstrate how to perform a patient carry using a stair chair to move a patient down the stairs.
- Demonstrate how to load a stretcher into an ambulance.
- Demonstrate how to use a scoop stretcher to move a patient.
- Demonstrate how to position the unresponsive patient.
- Demonstrate how to perform the head tilt-chin lift maneuver.
- Demonstrate how to perform the jaw-thrust maneuver.
- Demonstrate how to perform the tongue-jaw lift maneuver.
- Demonstrate how to operate a suction unit.
- Demonstrate how to suction a patient's airway.

---

[1] Curriculum based on the National EMS Education Standards set by the United States Department of Transportation (DOT).

- Demonstrate how to insert an oropharyngeal airway.
- Demonstrate how to insert a nasopharyngeal airway.
- Demonstrate how to use the AVPU scale to test for patient responsiveness
- Demonstrate how to evaluate a patient's orientation and document his or her status correctly.
- Demonstrate the technique for assessing a patient's airway and correctly obtain information related to respiratory rate, rhythm, quality, and character of breathing, and depth of breathing.
- Demonstrate how to assess pulses in a responsive patient and an unresponsive patient in varying locations on the patient.
- Demonstrate how to assess capillary refill.
- Demonstrate how to measure blood pressure by palpation and auscultation.
- Demonstrate how to test pupil reaction in response to light.
- Demonstrate the assessment of the neurovascular status.
- Demonstrate the use of a pulse oximetry device to evaluate the effectiveness of oxygenation in the patient.
- Demonstrate how to assess a patient's blood glucose level.
- Demonstrate how to administer oral medications.
- Demonstrate how to administer oral glucose.
- Demonstrate how to assist a patient with sublingual medications.
- Demonstrate how to administer a medication with an auto injector.
- Demonstrate how to administer intranasl medications.
- Demonstrate how to control shock.
- Demonstrate how to perform adult, child, and infant CPR.
- Demonstrate how to assist a patient with administration of a metered-dose inhaler.
- Demonstrate how to assist a patient with administration of a small-volume nebulizer.
- Demonstrate how to attach a cardiac monitor to obtain an ECG.
- Demonstrate the emergency medical care of the patient with external bleeding.
- Demonstrate the emergency medical care of an open chest wound.
- Demonstrate the emergency medical care of closed soft-tissue injuries.
- Demonstrate the emergency medical care of open soft-tissue injuries.
- Demonstrate the emergency medical care of an open abdominal wound.
- Demonstrate how to stabilize an impaled object.
- Demonstrate how to care for a burn.
- Demonstrate the emergency medical care of a patient who has a penetrating eye injury.
- Demonstrate how to apply a cervical collar.
- Demonstrate how to immobilize a patient using a long-spine board.
- Demonstrate the emergency medical care of musculoskeletal injuries.
- Demonstrate how to apply a rigid splint.
- Demonstrate how to apply a traction splint.

- Demonstrate how to immobilize a joint injury.
- Demonstrate how to care for a patient with an amputation.
- Demonstrate the emergency medical care of a local cold injury.
- Demonstrate the e3mergency medical care of a patient with heat related injuries.
- Demonstrate the emergency medical care and procedures to assist in a normal cephalic delivery.
- Demonstrate care procedures of the fetus as the head appears.
- Demonstrate how to clamp and cut the umbilical cord.
- Demonstrate the steps to follow in post-delivery care of the newborn.
- Demonstrate the emergency medical care of a pediatric patient.
- Demonstrate different strategies to communicate effectively with a patient who has a hearing impairment.
- Demonstrate how to perform a daily inspection of an ambulance.
- Demonstrate how to perform triage based on a fictional scenario that involves a mass-casualty incident.
- Demonstrate how to correctly identify DOT labels, placards, and markings.
- Demonstrate the steps to be used in treating a patient exposed to a chemical agent.

Course Outline
A. Preparatory
   a. EMS Systems
   b. Workforce Safety and Wellness
   c. Medical, Legal, and Ethical Issues
   d. Communication and Documentation
   e. Medical Terminology
   f. The Human Body
   g. Life Span Development
   h. Lifting and Moving Patients
B. Patient Assessment
   a. Patient Assessment
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
      i.   Psychiatric Emergencies
      j.   Gynecologic Emergencies

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. Orthopaedic Injuries
      i.   Environmental Emergencies

H. Special Patient Populations
      a. Obsetrics and Neonatal Care
      b. Pediatric Emergencies
      c. Geriatric Emergencies
      d. Patients With Special Challenges

I. EMS Operations
      a. Transport Operations
      b. Vehicle Extrication and Special Rescue
      c. Incident Management
      d. Terrorism Response and Disaster Management

Grade Scale

90-100	A
84-89	B
75-89	C
70-74	D
0-69	F

Course Evaluation
Final grades will be calculated according to the following criteria:

1. Skills Performance Sheet   80%
2. Affective Evaluation   20%

Course Policies
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. 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.
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.
8. Lab Skill Sheets
   a. Each specific lab skill sheet will be assigned a minimal points required to pass the specific skill.
   b. Each specific lab skill sheet will be assigned "Critical Criteria" which must be met in order to pass the skill.
   c. Each specific lab skill sheet must have a letter score of "C" or better and all critical criteria must be met in order for that lab skill to be accepted.
9. All lab skills are required to be passed the number of times assigned to each specific lab skill.

- Lab Skill Sheets
  o Each specific lab skill sheet will be assigned a minimal points required to pass the specific skill.
  o Each specific lab skill sheet will be assigned "Critical Criteria" which must be met in order to pass the skill.
  o Each specific lab skill sheet must have a letter score of "C" or better and all critical criteria must be met in order for that lab skill to be accepted.
- All lab skills are required to be passed the number of times assigned to each specific lab skill.

Lab Skills Required

Skill	Minimum Attempts Required	Instructor Check off Required
Patient Assessment / Management - Trauma	2	1
Patient Assessment / Management - Medical	2	1
BVM Ventilation of an Apneic Patient	2	1
Oxygen Administration by Non-Rebreather Mask	2	1
Spinal Immobilization (Seated Patient)	2	1
Spinal Immobilization (Supine Patient)	2	1
Bleeding Control / Shock Mangement	2	1

EMSP 1501 (lab)
Course Syllabi

Cardiac Arrest Management	2	1
Joint Immobilization	2	1
Long Bone Immobilization	2	1

Technical Requirements (for courses using Blackboard)

The latest technical requirements, including hardware, compatible browsers, operating systems, software, Java, etc. can be found online at: https://help.blackboard.com/en-us/Learn/9.1_2014_04/Student/015_Browser_Support/015_Browser_Support_Policy A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of the online technology and resources.

Disabilities Statement

The Americans with Disabilities Act of 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409) 880-1737 or visit the office in Student Services, Cecil Beeson Building. You may also visit the online resource at http://www.lit.edu/depts/stuserv/special/defaults.aspx

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 or obtained in print upon request at the Student Services Office. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document