# Patient Assessment and Airway Management EMSP 1356

LAMAR INSTITUTE OF TECHNOLOGY

**INSTRUCTOR CONTACT INFORMATION**


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| Office Location: | MPC 244 |
| Office Hours: | Appointment Only |


**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 1171
- EMSP 1338
- EMSP 1355
- EMSP 2206
- EMSP 2260

**COURSE DESCRIPTION**

Knowledge and skills required to perform patient assessment, airway management, and artificial ventilation.

**COURSE OBJECTIVES**

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

1. Integrate scene and patient assessment findings with your knowledge of epidemiology and pathophysiology to form a field impression.

- Use clinical reasoning to develop a list of differential diagnoses, modify the assessment, and formulate a treatment plan.
- Integrate treatment/procedures needed to preserve life.
- Determine the chief complaint.
- Investigate the chief complaint.
- Integrate therapeutic communication techniques and adapt the line of inquiry based on findings and presentation.
- Perform a rapid full-body scan.
- Perform an assessment of vital signs.
- Obtain and use information from patient monitoring devices.
- Distinguish patients with critical life threats from those in serious condition and those with minimal, non-life-threatening injuries and or conditions.
- Identify the anatomy of the respiratory system, including the major structures of the upper and lower airway.
- Discuss the physiology of breathing, including ventilation, oxygenation, and respiration.
- Describe factors related to the pathophysiology of respiration, including ventilation-perfusion ratio mismatch, hypoventilation, hyperventilation, and circulatory compromise.
- Describe factors related to ventilation, including partial pressure and volume.
- Explain positive pressure ventilation versus negative pressure ventilation.
- Discuss acid/base imbalance, specifically respiratory acidosis and respiratory alkalosis.
- Discuss the methods for end-tidal carbon dioxide assessment, including its importance.
- Describe the indications, contraindications, and complications of using continuous positive airway pressure (CPAP).
- Describe the advantages, disadvantages, and equipment used when performing endotracheal intubation (ET).
- Discuss the indications and contraindications of orotracheal intubation.
- Describe the methods available for confirming correct ET tube placement and advantages and disadvantages of each method.
- Describe how to secure an ET tube.
- Discuss the indications, contraindications, advantages, disadvantages, and complications of nasotracheal intubation.
- Discuss the indications, contraindications, advantages, disadvantages, and complications of digital intubation.
- Discuss the indications, contraindications, advantages, disadvantage, and complications of transillumination intubation.
- Discus the indications, contraindications, advantages, disadvantages, and complications of retrograde intubation.
- List possible pharmacologic adjuncts to airway management and ventilation, including both sedatives and neuromuscular blocking agents used for emergency intubation.
- Discuss the indications, contraindications, advantages, disadvantages and complications of laryngeal mask airway (LMA).
- Discuss the indications, contraindications, advantages, disadvantages and complications of King LT airway device.
- Discuss the indications, contraindications, advantages, disadvantages and complications of the esophageal tracheal Combitube.

- Discuss the indications, contraindications, advantages, disadvantages and complications of performing open cricothyrotomy.

Discuss the indications, contraindications, advantages, disadvantages and complications of performing needle cricothyrotomy.

**REQUIRED TEXTBOOK AND MATERIALS**

1. EMS Program Student Handbook

- Nancy Caroline's Emergency Care in the Streets 8th
  - ISBN 13: 9781284137187

**ATTENDANCE POLICY**

1. 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) |
|---|---|---|---|
| 1/16 | CPR | | |
| 1/18 | SKILLS | | |
| 1/23 | Patient Assessment | 1/22 | 1/22 |
| 1/25 | Patient Assessment | | |
| 1/30 | Patient Assessment | | |
| 2/6 | Patient Assessment | | 2/1 – CH 11 QUIZ 1 |
| 2/8 | Patient Assessment | | 2/7 – CH 11 QUIZ 2 |
| 2/13 | Patient Assessment | | 2/14 – CH 11 QUIZ 3 |
| 2/15 | Patient Assessment | | 2/18 – CH 11 QUIZ 4 |
| 2/20 | Critical Thinking and Critical Decision Making | 2/19 | 2/19 |

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| 2/22 | Critical Thinking and Critical Decision Making | | |
| 2/27 | Critical Thinking and Critical Decision Making | | |
| 2/29 | Critical Thinking and Critical Decision Making | | |
| 3/5 | Critical Thinking and Critical Decision Making | | 3/6 – CH 12 QUIZ |
| 3/7 | MID TERM | | |
| 3/19 | Airway Management | 3/18 | 3/18 |
| 3/21 | Airway Management | | |
| 3/26 | Airway Management | | |
| 3/28 | Airway Management | | 3/29 - CH 16 QUIZ 1 |
| 4/2 | Airway Management | | |
| 4/4 | Airway Management | | 4/6 – CH 16 QUIZ 2 |
| 4/9 | Airway Management | | |
| 4/11 | Airway Management | | 4/13 – CH 16 QUIZ 3 |
| 4/23 | Airway Management | | |
| 4/25 | Airway Management | | |
| 4/30 | Airway Management | | 5/1 – CH 16 QUIZ 4 |
| 5/2 | REVIEW | | |
| 5/9 | FINAL | | |
| 5/11 | FINAL | | |

**COURSE EVALUATION**

Final grades will be calculated according to the following criteria:

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| Affective Evaluation | 10% |
| Chapter Quiz | 20% |
| Module Exam | 20% |
| Mid-Term Exam | 25% |
| Final Exam | 25% |

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**GRADING SCALE**

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| 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. 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. Computers, telephones, headphones, and any other electronic devices must be turned off while in class or used only with permission of the instructor.

2. Do not bring children to class.
3. Late assignments will be accepted on a case by case basis.
4. 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'.
5. 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.
6. Additional class policies as defined by the EMS Program Student Handbook.