



Special Population (EMSP 2330)

Credit

- 3 semester credit hours (2 hours lecture, 2 hours lab)

Prerequisite

- EMT-Basic certification

Co-requisite

- EMSP 1173
- EMSP 2137
- EMSP 2243
- EMSP 2434
- EMSP 2265

Course Description

Knowledge and skills necessary to assess and manage ill or injured patients in diverse populations to include neonatology, geriatrics, and other related topics.

Required Textbooks and Materials

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

Course Objectives¹

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

- Integrate pathophysiological principles and assessment findings to formulate a field impression and implement a treatment plan for diverse patients with special challenges and abuse and assault patients.
- Apply an understanding of the anatomy and physiology of the female reproductive system to the assessment and management of a patient experiencing normal or abnormal labor.
- Utilize gynecological principles and assessment findings to formulate a field impression and implement the management plan for the patient experiencing a gynecological emergency.
- Integrate pathophysiological principles and assessment findings to formulate a field impression and implement a treatment plan for a neonatal patient.
- Integrate pathophysiological principles and assessment findings to formulate a field impression and implement a treatment plan for the pediatric patient.
- Integrate the pathophysiological principles and assessment findings to formulate a field impression and implement a treatment plan for the geriatric patient.

¹Curriculum based on National Highway Traffic Safety Administration: National EMS Education Standards

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- Integrate the assessment findings to formulate a field impression and implement a treatment plan for the patient who has sustained abuse or assault.
- Integrate pathophysiological and psychosocial principles to adapt the assessment and treatment plan for diverse patients and those who face physical, mental, social and financial challenges.
- Integrate pathophysiological principles and assessment findings to formulate a field impression and implement a treatment plan for the acute deterioration of the chronically ill patient.

Course Outline

A. Welcome to LIT EMS Program

1. Introduction of EMS Staff, Instructors and students
2. EMS program policies

B. Obstetrics

1. Anatomy and Physiology of the Female Reproductive System
2. Conception and Fetal Development
3. Physiologic Maternal Changes During Pregnancy
4. Cultural Value Considerations
5. Patient Assessment
6. Scene Size-up
7. Primary Assessment
8. History Taking
9. Secondary Assessment
10. Reassessment
11. Pathophysiology, Assessment, and Management of Complications Related to Pregnancy
12. Pathophysiology, Assessment, and Management of Bleeding Related to Pregnancy
13. Normal Childbirth
14. Emergency Pharmacology in Pregnancy
15. Pathophysiology, Assessment, and Management of Complications of Labor
16. Pathophysiology, Assessment, and Management of High Risk Pregnancy Considerations
17. Pathophysiology, Assessment, and Management of Complications of Delivery
18. Pathophysiology, Assessment, and Management of Postpartum Complications
19. Trauma and Pregnancy

C. Neonatal Care

1. General Pathophysiology and Assessment
2. Specific Interventions and Resuscitation
3. Pharmacologic Interventions
4. Family and Transport Considerations
5. Pathophysiology, Assessment, and Management of Specific Conditions

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6. Pathophysiology, Assessment, and Management of Conditions Related to Thermoregulation
7. Pathophysiology, Assessment, and Management of Common Birth Injuries in the Newborn
8. Pathophysiology, Assessment, and Management Cardiac Complications in Newborns

D. Pediatric Emergencies

1. Developmental Stages
2. Pediatric Anatomy, Physiology, and Pathophysiology
3. Parents of Ill or Injured Children
4. Pediatric Patient Assessment
5. Scene Size-up
6. Primary Assessment
7. History Taking
8. Secondary Assessment
9. Pathophysiology, Assessment, and Management of Respiratory Emergencies
10. Pathophysiology, Assessment, and Management of Shock
11. Pathophysiology, Assessment, and Management of Cardiovascular Emergencies
12. Pathophysiology, Assessment, and Management of Neurological Emergencies
13. Pathophysiology, Assessment, and Management of Gastrointestinal Emergencies
14. Pathophysiology, Assessment, and Management of Endocrine Emergencies
15. Pathophysiology, Assessment, and Management of Hematologic, Oncologic, and Immunologic Emergencies
16. Pathophysiology, Assessment, and Management of Toxicologic Emergencies
17. Pathophysiology, Assessment, and Management of Psychiatric and Behavioral Emergencies
18. Pathophysiology, Assessment, and Management of Fever Emergencies
19. Child Abuse and Neglect
20. Sudden Infant Death Syndrome
21. Apparent life-Threatening Event
22. Pathophysiology, Assessment, and Management of Pediatric Trauma Emergencies
23. Pathophysiology, Assessment, and Management of Burns
24. Children with Special health Care Needs
25. An ounce of Prevention

E. Geriatric Emergencies

1. Geriatric Anatomy and Physiology
2. Scene Size-up
3. Primary Assessment
4. History Taking
5. Secondary Assessment
6. Reassessment
7. Pathophysiology, Assessment, and Management of Respiratory Conditions
8. Pathophysiology, Assessment, and Management of Cardiovascular Conditions

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9. Pathophysiology, Assessment, and Management of Neurological Conditions
 10. Pathophysiology, Assessment, and Management of Renal Conditions
 11. Pathophysiology, Assessment, and Management of Endocrine Conditions
 12. Pathophysiology, Assessment, and Management of Immunologic Conditions
 13. Pathophysiology, Assessment, and Management of Toxicologic Conditions
 14. Pathophysiology, Assessment, and Management of Psychological Conditions
 15. Pathophysiology, Assessment, and Management of Integumentary Conditions
 16. Pathophysiology, Assessment, and Management of Musculoskeletal Conditions
 17. Management of Medical Emergencies in Elderly People
 18. Pathophysiology, Assessment, and Management of Geriatric Trauma Emergencies
 19. Elder Abuse
 20. End-of-Life Care
- F. Patients with Special Challenges
1. EMS, Health Care, and Poverty
 2. Care of Patients with Suspected Abuse and Neglect
 3. Care of patients with Terminal Illness
 4. Care of Bariatric Patients
 5. Care of patients with Communicable Diseases
 6. Medical Technology in the Pre-Hospital Setting
 7. Care of Patients with Cognitive, Sensory, or Communication Impairment
 8. Other Notable Chronic Medical Conditions

Skills Required

| Skill | Peer to Peer Required | Instructor Required |
|---|-----------------------------|------------------------|
| Abnormal Delivery w/Newborn Care | 3 | 2 |
| Comprehensive Normal Pediatric Physical Assessment Techniques | 3 | 2 |
| Direct Orotracheal Intubation Peds | 3 | 2 |
| Normal Delivery w/Newborn Care | 3 | 2 |
| Scenario Team Leads Pediatric | 0 | 3 |
| Intranasal Medication Administration | 5 | 2 |

Grade Scale

| | |
|----------|---|
| 90 – 100 | A |
| 84 – 89 | B |
| 75 – 83 | C |
| 70 – 74 | D |
| 0 – 69 | F |

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Course Evaluation

Final grades will be calculated according to the following criteria:

| | |
|----------------------|-----|
| Affective Evaluation | 10% |
| Chapter Quiz | 30% |
| Module Exam | 30% |
| Final Exam | 30% |

Course Policies

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. 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.
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 the EMS Program Student Handbook.

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 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)839-2018. You may also visit the online resource at [Special Populations - Lamar Institute of Technology \(lit.edu\)](http://SpecialPopulations-LamarInstituteofTechnology.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 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

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