



# Special Population (EMSP 2330)

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## **Credit**

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

## **Prerequisite**

- EMT-Basic certification

## **Co-requisite**

- EMSP 2265
- EMSP 2237
- EMSP 2243
- EMSP 1355

## **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
- Paramedic Care Principles & Practice Volume 6 ISBN: 978-0-13-211231-4
- Stethoscope
- Pen light
- BP cuff

## **Course Objectives<sup>1</sup>**

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.
- Integrate the assessment findings to formulate a field impression and implement a treatment plan for the patient who has sustained abuse or assault.

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- 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.

<sup>1</sup>Curriculum based on National Highway Traffic Safety Administration: National EMS Education Standards

**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

**Grade Scale**

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

**Course Evaluation**

Final grades will be calculated according to the following criteria:

Major Exam	30%
Assignments	30%
Quizzes and Homework	30%
Comprehensive Final Exam	10%

**Course Requirements**

- All class hours must be attended or made up hours documented, as required by the Texas Department of State Health Services.
- Maintain a 75% grade average in all EMSP courses.

### Course Policies

- See EMS Program Student handbook for specific course policies.

### Technical Requirements

For an online/hybrid course we recommend the following minimum technical requirements:

<b>Operating System</b>	Windows XP or Vista, MAC OS 10.4 or higher	
<b>Processor</b>	1 GHz or higher	
<b>Memory</b>	256 MB of RAM. If running Vista: 512 MB of RAM	
<b>Hard Drive Space</b>	500 MB free disk space	
<b>Browsers</b>	<b><u>Windows:</u></b> Supported: <ul style="list-style-type: none"><li>• Internet Explorer 6.0</li><li>• Internet Explorer 7.0</li><li>• Firefox 2.0</li></ul> Unsupported Browsers: <ul style="list-style-type: none"><li>• Internet Explorer 8</li><li>• Firefox 3.0</li></ul>	<b><u>MAC OS 10.4, 10.5:</u></b> Supported: <ul style="list-style-type: none"><li>• Safari 3.0</li><li>• Safari 3.1</li><li>• Firefox 2.0</li></ul> Unsupported Browsers: <ul style="list-style-type: none"><li>• Safari 3.2</li><li>• Firefox 3.0</li></ul>
	NOTE: Cookies, Java, and JavaScript must be enabled. Pop-up blockers should be configured to permit new windows from LIT <a href="#">Click here to check your browser.</a>	
<b>Browser Plug-ins</b>	In addition to the minimum system requirements needed to access Blackboard, you may also need additional browser plug-ins to view some of the content. Common plug-ins include: <ul style="list-style-type: none"><li>• <a href="#">Adobe Acrobat</a></li><li>• <a href="#">Adobe Flash Player</a></li><li>• <a href="#">Quicktime</a></li><li>• <a href="#">Windows Media Player</a></li></ul>	
<b>Internet Connection</b>	Broadband (cable or DSL) connection required	
<b>Additional Software</b>	You should be running <a href="#">the most recent version of Java</a> .	

### 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.