Course Prefix and Number: EMS 139  
Credits: 1

Course Title: Special Populations

Course Description: Focuses on the pre-hospital assessment and management of patients in a specific population including pediatrics, geriatrics, obstetrics/gynecology (OB/GYN), bariatric, abuse, sexual assault, and special needs. Prerequisites: EMS 121, EMS 123, EMS 125, EMS 126, EMS 127, EMS 128. Corequisite: EMS 140. Lecture 1 hour per week.

General Course Purpose: The purpose of this course is to teach the student principles of care and management of patients in special populations.

Course Prerequisites and Co-requisites: Prerequisites: EMS 121, EMS 123, EMS 125, EMS 126, EMS 127, EMS 128 Corequisite: EMS 140

Student Learning Outcomes:  
Upon completing the course, the student will be able to  
a. Discuss gynecological-related issues and management;  
b. Describe the stages of labor;  
c. Identify issues related to normal and abnormal labor and delivery;  
d. Identify differences in management of the pediatric patient;  
e. Identify differences in management of the geriatric patient;  
f. Describe issues related to patients with special health care needs; and  
g. Explain concepts related to neonatal resuscitation and care.

Major Topics to Be Included:

a. Gynecology  
   ▪ Female reproductive system anatomy review  
   ▪ Menstrual and ovarian cycles  
   ▪ Abdominal/vaginal pain and bleeding  
   ▪ Consider pregnancy and/or sexually transmitted diseases  
   ▪ Sexual assault  
   ▪ Complications with the female reproductive system

b. Obstetrics  
   ▪ Normal anatomical, physiological, and psychological changes in pregnancy  
   ▪ General system physiology, assessment, and management of the obstetrical patient.  
   ▪ Complications related to pregnancy  
   ▪ Complications of labor: pathophysiology, assessment, complications, management  
   ▪ Complications of delivery: pathophysiology, assessment, complications, management

c. Pediatrics and Infants  
   ▪ Pediatric anatomical variations and assessment  
   ▪ Growth and development
- Pediatrics: specific pathophysiology, assessment, and management
- Child abuse and neglect
- Pediatrics developmental disabilities
- Sudden Infant Death Syndrome

d. Geriatrics
   - Normal and abnormal changes associated with aging
   - Sensory changes
   - Pharmacokinetic change
   - Polypharmacy
   - Specific conditions that occur more frequently in the elderly

e. Patients with Special Challenges
   - Abuse and neglect
   - Homelessness/Poverty
   - Bariatric patients
   - Technology assisted/dependent
   - Hospice care and terminally ill
   - Tracheostomy care/dysfunction
   - Emotionally impaired
   - Physical needs/challenges
   - Patients with communicable diseases
   - Terminally ill patients
   - Mental needs/challenges

f. Neonatal Care
   - General pathophysiology, assessment, and management
   - Meconium stained amniotic fluid
   - Apnea in the neonate
   - Diaphragmatic hernia in the neonate
   - Resuscitation care

g. Special Considerations in Trauma
   - Trauma in pregnancy
   - Pediatric trauma
   - Geriatric trauma

**Date Created/Updated (Month, Day, and Year):** September 21, 2018