

## **NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY EMS 139 – SPECIAL POPULATIONS (1 CR.)**

### **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. Lecture 1 hour. Total 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/Corequisites**

Prerequisite: Current Virginia EMT and CPR certification as approved by the Virginia Office of EMS.  
Corequisite: EMS 140.

### **Course Objectives**

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 healthcare needs
- g) Explain concepts related to neonatal resuscitation and care

### **Major Topics to be Included**

- a) Gynecology
  - a. Female reproductive system anatomy review
  - b. Menstrual and ovarian cycles
  - c. Abdominal/vaginal pain and bleeding
  - d. Consider pregnancy and/or sexually transmitted diseases
  - e. Sexual Assault
  - f. Complications with the female reproductive system
- b) Obstetrics
  - a. Normal anatomical, physiological, and psychological changes in pregnancy
  - b. General system physiology, assessment, and management of the obstetrical patient.
  - c. Complications Related to Pregnancy
  - d. Complications of Labor: pathophysiology, assessment, complications, management
  - e. Complications of Delivery: pathophysiology, assessment, complications, management
- c) Pediatrics and Infants
  - a. Pediatric Anatomical Variations and Assessment
  - b. Growth and Development
  - c. Pediatrics: Specific Pathophysiology, Assessment, and Management
  - d. Child Abuse and Neglect
  - e. Pediatrics Developmental Disabilities
  - f. Sudden Infant Death Syndrome
- d) Geriatrics
  - a. Normal and Abnormal Changes associated with aging
  - b. Sensory changes
  - c. Pharmacokinetic change

- d. Polypharmacy
  - e. Specific conditions that occur more frequently in the elderly
- e) Patients with Special Challenges
  - a. Abuse and neglect
  - b. Homelessness/Poverty
  - c. Bariatric Patients
  - d. Technology Assisted/Dependent
  - e. Hospice Care and Terminally Ill
  - f. Tracheostomy care/Dysfunction
  - g. Emotionally impaired
  - h. Physical Needs/Challenges
  - i. Patients with Communicable Diseases
  - j. Terminally Ill Patients
  - k. Mental Needs/Challenges
- f) Neonatal Care
  - a. General pathophysiology, assessment and management
  - b. Meconium stained amniotic fluid
  - c. Apnea in the neonate
  - d. Diaphragmatic hernia in the neonate
  - e. Resuscitation care
- g) Special Considerations in Trauma
  - a. Trauma in Pregnancy
  - b. Pediatric Trauma
  - c. Geriatric Trauma