

## **NURN 218**

### **Maternal-Newborn Nursing Concepts**

3 Credits: 2 credits lecture and 1 credit lab/clinical

## Community College of Baltimore County Common Course Outline

### **Description**

**NURN 218 – Maternal-Newborn Nursing Concepts:** students examine the role of the nurse generalist in the care of families experiencing the human reproductive process (pregnancy, labor and birth and post-partum). Emphasis is placed on [exploring the concepts of human reproduction, human development during the neonatal period, and family dynamics. Nursing care management of human reproductive complications related to concepts of perfusion, infection, gas exchange, and metabolism is addressed. Through didactic and clinical learning experiences, students are prepared to support women and their families through the reproductive process by assisting and teaching them to care for themselves and a new human life.

**Pre-requisites:** NURN 160 with a grade of C or higher

### **Overall Course Objectives**

Upon completion of this course, students will be able to:

1. apply the standards of professional excellence essential to the role of the Maternal-Newborn Nurse incorporating ethics, caring interventions, and a spirit of inquiry;
2. use technology, informatics, and evidence-based sources to promote optimal health for the family experiencing the reproductive process;
3. describe the physiologic and psychological changes associated with human reproduction, human development during the neonatal period, and family dynamics during the childbearing cycle;
4. explain evidence-based nursing care management of families experiencing human reproduction, human development during the neonatal period, and changing family dynamics;
5. apply clinical judgment to provide safe client and family-centered nursing care while promoting optimal health for families experiencing the reproductive process;
6. design a patient-centered teaching plan to implement in the care of families during the human reproductive process and neonatal period;
7. distinguish between normal and abnormal physiologic and behavioral assessment findings during the reproductive process, the neonatal period, and the family adjustment period;
8. apply clinical judgment using the nursing process and evidence-based sources to provide safe nursing care that supports human reproduction, healthy family adjustment, and healthy neonatal development;
9. apply evidence-based principles of proper nutrition to promote optimal health during the reproductive process and the neonatal period;

10. develop a client and family-centered plan of nursing care that considers culture that supports healthy human reproduction, neonatal development, and positive family dynamics;
11. describe nursing responsibilities in the administration and evaluation of pharmacology and Complementary and Alternative Medicine (CAM) therapies for families during the human reproductive process;
12. describe the physiologic and psychological changes related to human reproduction complications related to perfusion, infection, gas exchange, and metabolism; and
13. explain evidence-based nursing care management of human reproduction complications related to perfusion, infection, gas exchange, and metabolism.

### **Major Topics**

- I. Professional role of the maternal-newborn nurse
- II. Human reproduction related to pregnancy
  - a. Normal physiologic and psychological changes by trimester
  - b. Assessment of fetal well-being
  - c. Hyperemesis gravidarum
  - d. Infertility
- III. Human reproduction related to labor and birth
  - a. Normal physiologic and psychological changes by stages and phases
  - b. Dysfunctional labor patterns
  - c. Cesarean birth
- IV. Human reproduction related to postpartum
  - a. Normal physiologic and psychological changes
  - b. Postpartum hemorrhage
  - c. Contraception
- V. Human development: Neonatal period
  - a. Physiologic and behavioral adaptations
  - b. Newborn nutrition
  - c. Complications
    - i. Cold stress
    - ii. Physiologic jaundice
    - iii. Preterm neonate
- VI. Family dynamics related to reproduction: Psychological adaptations
  - a. Postpartum mood disorders
  - b. Maternal substance abuse
  - c. Neonatal abstinence syndrome
  - d. Interpersonal violence
- VII. Grief and loss: Perinatal loss
- VIII. Caring interventions/psychomotor skills related to human reproduction
  - a. Electronic fetal monitoring
  - b. Maternal/newborn assessment
  - c. Foley catheterization
- IX. Clinical judgment: Assessment and management
  - a. Pharmacology for maternal and newborn clients
  - b. Maternal clients

- i. Clinical and laboratory testing
  - ii. Antepartum
  - iii. Intrapartum
  - iv. Postpartum
- c. Neonatal clients
- X. Infection complications related to human reproduction
  - a. TORCH infections (toxoplasmosis, rubella, cytomegalovirus, herpes)
  - b. Zika virus
  - c. Perinatal HIV
  - d. Preterm premature rupture of membranes
  - e. Preterm labor
  - f. Endometritis
  - g. Mastitis
  - h. Neonatal sepsis
- XI. Gas exchange complications in the neonate
  - a. Respiratory distress syndrome
  - b. Transient tachypnea of the newborn
  - c. Meconium aspiration syndrome
  - d. Asphyxia
- XII. Metabolism complications during fetal development/neonatal period
  - a. Rh sensitization
  - b. Gestational diabetes
  - c. Pathologic jaundice
  - d. Large for gestational age/hypoglycemia
  - e. Screening for inborn errors of metabolism
- XIII. Perfusion complications related to human reproduction
  - a. Hypertensive disorders
  - b. Cardiac disease and coagulopathies
  - c. Small for gestational age/Intrauterine growth restriction
  - d. Post maturity syndrome
  - e. Abortions
  - f. Ectopic pregnancy
  - g. Gestational trophoblastic disease
  - h. Previa
  - i. Abruptio
  - j. Cord accidents

### **Course Requirements**

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- 3 theory examinations
- 3 quizzes
- 1 proctored standardized test

- 2 writing assignments, such as clinical analysis papers, patient teaching projects, and journal article reviews

Written assignments and research projects: Students are required to use appropriate academic resources in their research and cite sources according to the style selected by their professor.

### **Other Course Information**

The following are required for satisfactory completion of this course:

- attendance at all assigned clinical/laboratory experiences
- satisfactory completion of all assignments
- satisfactory performance in the clinical experience
- satisfactory performance on all nursing skills tests
- an exam average of 75.00% or higher
- an overall grade of C (75.00%) or higher

Date Revised: 9/17/2019