



# Broward Community College

## Course Outline

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STATUS: ACTIVE

**COMMON COURSE NUMBER:** NUR2391 (NSP 2365)

**COMMON COURSE TITLE:** Care of the Critically Ill Newborn

**CREDIT HOURS:** 4

LECTURE: 64

**COURSE DESCRIPTION:** This course will provide an introduction to the basic needs of the sick or compromised infant and the rationale/theory behind prescribed treatments and care. Units include: thermal environment, assessment, CPR, respiratory disorders, hematological disorders, maternal infant bonding, the dying infant, GI disturbance, oxygen administration, neonatal sepsis, blood gas analysis, cardiac anomalies, seizure disorders, and mechanical ventilation.

**Term Offered:** On Demand

**UNIT TITLES:**

1. Physical Assessment, Gestational Age Assessment, Apgar Scoring, and Growth and Development.
2. Thermoregulation, Hyperbilirubinemia, Renal and Metabolic Disorders, and Case Studies
3. Nutrition, GI Complications, Surgical Intervention, Respiratory Diseases, and Case Studies
4. Neurological Assessment, Pharmacotherapy, ABG's, and Cardiac Disorders
5. Respiratory Equipment, Sepsis, and Case Studies
6. Maternal-Infant Bonding, Infant Stimulation, and Perinatal Bereavement

LAST REVIEW Academic Year 2004-2005 NEXT REVIEW Academic Year 2009-2010

*Interim Revision Dates:*

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## **NUR2391 Care of the Critically Ill Newborn**

### **I. Course Overview:**

Upon successful completion of this course, the students should be able to demonstrate an understanding of the basic needs of the sick or compromised infant and the rationale behind prescribed treatment and care.

### **II. Units:**

Unit 1. Physical Assessment, Gestational Age Assessment, Apgar Scoring, and Growth and Development.

General Outcome:

1.0 The students should be able to identify the guidelines to assess growth development of a newborn.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 1.1 Describe a physical assessment of a newborn and deviations that may be found.
- 1.2 Describe the gestational age maturing rating scale.
- 1.3 Describe the five parameters of Apgar scoring.
- 1.4 Describe the infant's physical, cognitive, motor, and social skill development.

Unit 2. Thermoregulation, Hyperbilirubinemia, Renal and Metabolic Disorders, and Case Studies

General Outcome:

2.0 The students should be able to assess the renal and metabolic status of the newborn.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 2.1 Describe the thermoregulatory mechanisms needed by infants and how nursery personnel can provide for a neutral thermal environment.
- 2.2 Define hyperbilirubinemia: its pathophysiology, and treatment.

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- 2.3 Describe the major renal and metabolic disorders common to neonates and treatments prescribed.
- 2.4 Present a case study applying theory principles to the clinical setting.

### Unit 3. Nutrition, GI Complications, Surgical Intervention, Respiratory Diseases, and Case Studies

#### General Outcome:

- 3.0 The students should be able to assess the neonate's nutritional, gastrointestinal, and respiratory needs.

#### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 3.1 Describe the nutritional needs of a full-term and compromised infant.
- 3.2 Describe the prevalent GI complications found in sick neonates and the common surgical interventions.
- 3.3 Describe the prevalent respiratory disorders and treatments for the neonate.
- 3.4 Present a case study applying theory principles to the clinical setting.

### Unit 4. Neurological Assessment, Pharmacotherapy, ABG's, and Cardiac Disorders

#### General Outcome:

- 4.0 The students should be able to assess the neonate's neurological and cardiovascular needs.

#### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 4.1 Describe the neurological disorders, diagnosis, and treatment common to neonates.
- 4.2 Describe medications commonly used in the neonate including IM, IV, and oral preparation.
- 4.3 Interpret normal and abnormal ABG's in the neonate.
- 4.4 Describe the different cardiac anomalies that can be present in the neonate and the treatment required.

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## Unit 5. Respiratory Equipment, Sepsis, and Case Studies

### General Outcome:

5.0 The students should be able to discuss the principles of sepsis as it relates to the neonate.

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 5.1 Describe use and care of equipment used to delivery oxygen, provide for suctioning, and mechanical ventilation in a neonate.
- 5.2 Describe the severity and susceptibility of a neonate to infection.
- 5.3 Present a case study applying theory principles to the clinical setting.

## Unit 6. Maternal-Infant Bonding, Infant Stimulation, and Perinatal Bereavement

### General Outcome:

6.0 The students should be able to discuss significant psychological process of the neonate.

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 6.1 Define the normal bonding process as it occurs between mother and infant.
- 6.2 Describe appropriate means of infant stimulation and the positive long term effects.
- 6.3 Describe the stages of grief that a parent will go through when their infant dies and how to intervene effectively.