



Broward Community College

Course Outline

STATUS ACTIVE

COMMON COURSE NUMBER: NUR2292 (NSP 2700C)

COMMON COURSE TITLE: Introduction to Critical Care Nursing

CREDIT HOURS: 8

LECTURE: 128

COURSE DESCRIPTION: Designed for the registered nurse desiring to enter the area of critical care who is currently working in another area. It is not designed for nurses currently working in critical care. The course will include topics related to intensive nursing care of patients with pulmonary, neurological, cardiovascular, renal and metabolic disorders as well as psychosocial needs of critically ill patient. Pre-Requisites: Florida RN License, Basic Life Support Course (Healthcare Provider Level), Basic Arrhythmia Course or Successful Completion of Challenge Exam (minimum grade of 80%).

Co-Requisite: NUR2292L (Minimum grade of "Satisfactory")

Term Offered: On Demand/Central

UNIT TITLES:

1. Introduction
2. The Critically Ill Adult With Cardiovascular Problems
3. The Critically Ill Adult With Pulmonary Problems
4. The Critically Ill Adult With Metabolic Problems
5. The Critically Ill Adult With Neurological/Neurosurgical Problems
6. The Critically Ill Adult With Renal Problems
7. The Critically Ill Adult With Gastrointestinal Problems
8. The Critically Ill Adult With Hematology Problems
9. Care of the Critically Ill Patient With Multi-System Failure
10. Psychosocial Needs/Growth and Development Patterns

LAST REVIEW Academic Year 2005-2010 NEXT REVIEW Academic Year 2010-2011

Interim Revision Dates:

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I. Course Overview:

Upon successful completion of this course, the students should be prepared to assume an entry level position in a critical care unit.

II. Units:

Unit 1. Introduction

General Outcome:

1.0 The students should be able to discuss critical care concepts on the hospitalized patients with different medical/surgical diagnoses.

Specific Learning Outcomes:

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

- 1.1 Identify the need for a critical care specialty.
- 1.2 Discuss the relationship of the nursing process to critical care nursing.
- 1.3 Describe the legal implications involved in caring for the critically ill patient.
- 1.4 Describe the methods of providing safety to the patient and the nurse in the critically care area.
- 1.5 Discuss the psychosocial impact of the critical illness on the patient, family, and staff.
- 1.6 Discuss history taking and physical examination in the assessment process for critical care.
- 1.7 Discuss the need for infection control in the critical care area.

Unit 2. The Critically Ill Adult With Cardiovascular Problems

General Outcome:

2.0 The students should be able to discuss the care of patients with different cardiovascular diagnoses

Specific Learning Outcomes:

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

- 2.1 Describe normal anatomy and functions.

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- 2.2 Describe the systematic process of cardiovascular assessment using the techniques of inspection, palpation, percussion and auscultation.
- 2.3 Identify techniques of hemodynamic monitoring and its use with critical care patient.
- 2.4 Identify the physiological alterations, treatment and nursing interventions of the following: acute myocardial infarction, acute pericarditis, dissecting aortic aneurysm, endocarditis, shock, unstable angina, pulmonary edema and CHF.
- 2.5 Discuss the method of cardiovascular surgery including implications, types of procedures, complications and nursing care.
- 2.6 Identify basic cardiac arrhythmias and describe treatment of each.
- 2.7 Identify the methods of interpretation of 12-lead EKG.
- 2.8 Discuss the various types of cardiac pacemakers and functions of each.

Unit 3. The Critically Ill Adult With Pulmonary Problems

General Outcome:

- 3.0 The students should be able to discuss the care of patients with different pulmonary diagnoses:

Specific Learning Outcomes:

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

- 3.1 Identify the major parts of the pulmonary system and function of each.
- 3.2 Identify four major acid-base abnormalities and methods of correction.
- 3.3 Describe systematic process of assessment of pulmonary assessment using the techniques of inspection, palpitation, percussion and auscultation.
- 3.4 Identify the physiological alterations, treatment and nursing interventions of the following: acute respiratory failure, chest trauma, acute pulmonary embolism, ARDS.
- 3.5 Describe the techniques used in chest X-Ray interpretation.
- 3.6 Identify proper techniques for tracheotomy care and decannulation.
- 3.7 Describe the technique used in caring for a patient who is ventilator dependent.

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Unit 4. The Critically Ill Adult With Metabolic Problems.

General Outcome:

4.0 The students should be able to discuss the care of patients with different metabolic diagnoses.

Specific Learning Outcomes:

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

- 4.1 Describe the normal anatomy and functions of the endocrine system.
- 4.2 Describe the effect of each hormone produced by each endocrine gland.
- 4.3 Describe the systematic process for assessment of the endocrine system using the techniques of inspection, palpation, percussion and auscultation.
- 4.4 Identify the physiological alterations, treatment and nursing interventions of the following: diabetes, hyperthyroidism, hypothyroidism, acute adrenal insufficiency, pituitary tumors and burns.

Unit 5. The Critically Ill Adult With Metabolic Problems

General Outcome:

5.0 The students should be able to discuss the care of patients with different neurological diagnoses.

Specific Learning Outcomes:

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

- 5.1 Describe normal anatomy and functions of the nervous system.
- 5.2 Describe the systematic process of neurological assessment using the techniques of inspection, palpation, percussion and auscultation.
- 5.3 Identify the physiological alterations, treatment and nursing interventions of the following: Guillain-Barre', Ruptured Intracranial aneurysms, myasthenia, gravis, seizure disorders, meningitis, head injuries, and disorders of increased intracranial pressure.

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Unit 6. The Critically Ill Adult With Renal Problems

General Outcome:

6.0 The students should be able to discuss patients with different renal diagnoses.

Specific Learning Outcomes:

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

- 6.1 Describe normal anatomy and function of the renal system.
- 6.2 Describe the assessment of the renal system including interpretation of laboratory results.
- 6.3 Discuss the physiology of renal failure: pre-renal, renal, post-renal components.
- 6.4 Discuss selected electrolyte imbalances including causes, pathophysiology and treatment.
- 6.5 Differentiate between the different methods of dialysis available to the renal patient.
- 6.6 Discuss the physical and emotional implications of renal transplantation.

Unit 7. The Critically Ill Adult With Gastrointestinal Problems

General Outcome:

7.0 The students should be able to discuss patients with different gastrointestinal diagnoses.

Specific Learning Outcomes:

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

- 7.1 Discuss normal anatomy and functions of the gastrointestinal system.
- 7.2 Describe the systematic process of gastrointestinal assessment using the techniques of inspection, palpation, percussion and auscultation.
- 7.3 Describe the factors causing impaired nutrition in the patient with a gastrointestinal disorder and the need and usage of hyperalimentation.
- 7.4 Describe the major fluid and electrolyte balances in a patient with a gastrointestinal disorder.
- 7.5 Identify the physiological alterations, treatment and nursing interventions of the following: cirrhosis of the liver, liver failure, gastrointestinal hemorrhage and peritonitis.

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Unit 8. The Critically Ill Adult With Hematology Problems

General Outcome:

8.0 The students should be able to discuss the care of patients with different hematology diagnoses.

Specific Learning Outcomes:

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

- 8.1 Discuss normal anatomy and functions of spleen, liver, lymph system, thymus and bone marrow.
- 8.2 Discuss immune system in relation to B-cells and T-cell functions.
- 8.3 Discuss mechanisms that normally prevent clotting.
- 8.4 Discuss normal physiology of erythrocytes, leukocytes and platelets.
- 8.5 Discuss blood component therapy in terms of purpose, reactions and treatment of side effects.
- 8.6 Identify the physiological alterations treatment and nursing interventions of the following: cancer of blood-forming organs, anemia, DIC and leukemia.

Unit 9. Care of the Critical Ill Patient With Multi-System Failure

General Outcome:

9.0 The students should be able to discuss the care of patients with the diagnosis of multi-system failure.

Specific Learning Outcomes:

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

- 9.1 Describe the method of priority assessment in the patient with multi-system failure.
- 9.2 Identify the major components of megacode and the rationale for each.
- 9.3 Discuss the major types of traction and use of each.

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Unit 10. Psychosocial Needs/Growth and Development Patterns

General Outcome:

10.0 The students should be able to discuss the psychological needs of the hospitalized patients across the life span.

Specific Learning Outcomes:

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

- 10.1 Discuss Maslow's Hierarchy of needs.
- 10.2 Discuss the growth and development landmarks.
- 10.3 Identify the psychosocial needs of the hospitalized patients.
- 10.4 Identify coping mechanisms used by hospitalized patients.
- 10.5 Provide psychological support to the hospitalized patients.