



BROWARD COMMUNITY COLLEGE COURSE OUTLINE

LAST REVIEW: 2004-2005 **NEXT REVIEW:** 2009-2010 **STATUS:** A *(i.e. 2003-2004)* *(i.e. 2008-2009)* *(A, I, D)*

COURSE TITLE: Critical Care Nursing: Clinical Practicum

COMMON COURSE NUMBER: NUR2947L

CREDIT HOURS: 1

CONTACT HOUR BREAKDOWN

(per 16 week term)

CLOCK HOURS: 80

(Voc. Course ONLY)

Lecture:

Lab:

Clinic: 80

Other:

PREREQUISITE(S): Florida RN License, BLS Course, Basic Arrhythmia Course or successfully passed the Basic Arrhythmia Challenge Exam

COREQUISITE(S): NUR2292 (Critical Care Nursing - Theory)

PRE/COREQUISITE(S):

COURSE DESCRIPTION: The critical course will be provided in a local hospital where the entry level critical care nurse requires additional remediation or for a returning nurse who needs minimal skill building and bedside activities with assigned preceptor to correlate to didactic theory. The RN will incorporate nursing assessment, implementation and interventions related to the critical care patient from admission to discharge or end-of life. Skill building activities focus on critical care policies, procedures and protocols required for critical care nursing. Bedside activities focus on organizational skills in performing patient assessments, interventions and documentations in the medical record. *(750 characters, maximum)*

UNIT TITLES

1. Critical Care Skill Building
2. Bedside Activities



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UNITS

Unit 1: Critical Care Skill Building

General Outcome:

- 1.0 The student shall: The critical care nurse shall be able to independently perform specific procedures required in caring for the critically ill patient in a selected critical care environment.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 1.1 Set up bedside monitoring system including lead application and monitoring lead selection
- 1.2 Correctly set up a hemodynamic monitoring system, including assistance with insertion, site care, trouble shooting and waveform interpretation (CVP, PAP, arterial and cardiac output)
- 1.3 Perform emergency equipment daily checks (Code cart, monitor/defibrillator portable oxygen tank)
- 1.4 Perform defibrillation/cardioversion, medication administration and recording during a code
- 1.5 Locate equipment and assist with emergency intubation as well as extubation procedures
- 1.6 Be familiar with policy and procedures regarding oxygen delivery devices, BIPAP, mechanical ventilation, and ventilator weaning protocols
- 1.7 Demonstrate the ability to validate ventilator settings and alarms and assess for complications of mechanical ventilation
- 1.8 Identify acute coronary syndrome 12 lead ECG changes of current of injury, necrosis and ischemia
- 1.9 Be familiar with indications for transcutaneous and transvenous temporary or permanent pacing, including pacing mode, (e.g. VVI, DDD), troubleshooting and potential complication of pacemaker therapy
- 1.10 Set up equipment for chest tube insertion and drainage. Be familiar with the procedure for auto-transfusion and where to obtain equipment
- 1.11 Be familiar with the policy and procedures regarding ICP monitoring
- 1.12 Demonstrate the set-up of ICP monitoring and ventriculostomy drainage system including assistance with insertion, site care, waveform interpretation and trouble shooting



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- 1.13 Be familiar with the indications for dialysis or continuous renal replacement**
- 1.14 Correctly assess placement and patency of various GI tubes**
- 1.15 Demonstrate correct procedure for blood and/or blood product administration**
- 1.16 Demonstrate correct procedure for train-of-four monitoring with the peripheral nerve stimulator including medication (sedation, analgesics, neuromuscular blocking agents) and trouble shooting**
- 1.17 Demonstrate proper use of special care beds in the critical care environment (total care ICU bed and lateral rotation therapy bed), including special consideration to prevent pressure ulcers, nosocomial pneumonia and monitor fluid balance status with built-in bed scale**
- 1.18 Demonstrate IV infusion pump set-up including cross-check of calculated IV flow rates from computerized IV pump systems**
- 1.19 Be familiar with the indications for intra-aortic balloon pump insertion and the associated complications**



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Unit 2: Bedside Activities

General Outcome:

- 2.0 The student shall be able to: independently perform specific assessments, interventions and documentation in the medical record while caring for the critically ill patient in a selected critical care environment.**

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 2.1 Perform head-to-toe assessment on the critically ill patient identifying normal and abnormal findings related to each system (cardiovascular, pulmonary, neurologic, renal, endocrine, integumentary, gastrointestinal, and psychosocial)**
- 2.2 Develop a plan of care based on the assessment findings and document appropriately in the medical record**
- 2.3 Identify and perform appropriate interventions based on assessment**
- 2.4 Evaluate laboratory data specific to the patient's disease process and assessment findings**
- 2.5 Identify age-related needs for specific patient populations (e.g. pediatric patient in adult ICU, the geriatric patient)**
- 2.6 Identify culturally specific needs based on the patient's belief system**
- 2.7 Assess patient's psychosocial status and care needs (e.g. sleep patterns, anxiety, anger, grief, support systems, advance directive, end of life wishes) and identify resources to meet the patient and family psychosocial needs**
- 2.8 Assess pain levels and sedation requirements and identify goals for pain management and sedation requirements**
- 2.9 Participate as an active team member for multidisciplinary team rounds in selected critical care environment**



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Unit 3: Wave Forms, Intervals, Segments and Complexes.

General Outcome:

3.0 The student shall:

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

3.1 Define the 6 key ECG waveforms that comprise the normal cardiac cycle.

3.2 Identify 3 ECG intervals.

3.3 Recognize 3 variations of the QRS complex.

3.4 Recognize 3 ST segment variations.



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Unit 4: Cardiac Monitors

General Outcome:

4.0 The student shall:

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 4.1 Recognize two indications for ECG monitoring.**
- 4.2 Describe two types of single-lead monitoring.**
- 4.3 Recognize the term “lead.”**
- 4.4 List the two most common leads utilized during cardiac monitoring.**
- 4.5 Recognize the normal ECG pattern for the two most common leads.**
- 4.6 Demonstrate correct electrode placement in three-lead, and five-lead monitoring system.**
- 4.7 Describe the patient preparation necessary for ECG monitoring.**
- 4.8 Identify three problems that may occur during cardiac monitoring.**



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Unit 5: Analysing a Rhythm Strip

General Outcome:

5.0 The student shall:

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 5.1 Determine the regularity of the rhythm of the R wave.**
- 5.2 Calculate the heart rate for regular and irregular rhythms.**
- 5.3 Identify and examine P waves.**
- 5.4 Measure the PR interval.**
- 5.5 Measure the QRS interval.**



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Unit 6: Arrhythmias

General Outcome:

6.0 The student shall:

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

6.1 Define the ECG criteria using the five-step method for:

- Normal Sinus Rhythm
- Sinus Bradycardia
- Sinus Tachycardia
- Sinus Arrhythmia
- Sinus Arrest/Sinus Block
- Wandering Atrial Pacemaker
- Premature Atrial Contraction (PACs)
- Nonconducted PAC
- Atrial Tachycardia
- Paroxysmal Atrial Tachycardia
- Atrial Flutter
- Atrial Fibrillation
- Premature Junctional Contraction (PJC)
- Junctional Rhythm
- Accelerated Junctional Rhythm
- Paroxysmal Junctional Tachycardia (PJT)
- First-degree AV Block
- Second-degree AV Block, Type I (Mobitz I or Wenckebach)
- Second-degree AV Block, Type II (Mobitz II)
- Third-degree AV Block (Complete Heart Block)

6.2 Discuss the clinical significance for each ECG rhythm.

6.3 Determine the appropriate treatment modalities for each ECG examples.

6.4 Analyze and interpret ECG examples.



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Unit 7: Blocks and Pacemakers

General Outcome:

7.0 The student shall:

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

7.1 Define the ECG criteria using the five-step method for:

- Bundle Branch Block / Interventricular
- Premature Ventricular Contractions (PVC)
- Ventricular Tachycardia / Torsades de poites
- Ventricular Fibrillation
- Idioventricular Rhythm / Ventricular Escape Rhythm
- Accelerated Idioventricular Rhythm
- Ventricular Asystole

7.2 Discuss the clinical significance for each ECG rhythm.

7.3 Determine the appropriate treatment modalities for each ECG rhythm.

7.4 Analyze and interpret ECG examples.

7.5 Compare and contrast the differences between transcutaneous and transvenous pacing.

7.6 List three types of permanent pacemakers.

7.7 Identify the indications for pacing.

7.8 Define the letters of the pacing code system.

7.9 List two common malfunctions with temporary pacemakers.

7.10 Analyze and interpret pacemaker rhythm examples.

7.11 Discuss the clinical significance of pacemaker rhythms.