



# Broward Community College

## Course Outline

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STATUS: ACTIVE

**COMMON COURSE NUMBER:** NUR2293 (NSP 2770)

**COMMON COURSE TITLE:** Basic Perioperative Nursing

**CREDIT HOURS:** 5

Lecture: 80.

**COURSE DESCRIPTION:** This program is designed for the learner who is a registered nurse with minimal or no operating room experiences. The goal of the program is to prepare the R.N. for initial employment as an effective member of the surgical team in both the circulator and scrub roles, thus providing quality perioperative nursing care.

**Term Offered:** On Demand

**UNIT TITLES:**

1. Organization, Philosophy, and Objectives
2. Environmental Orientation
3. Surgical Terminology
4. Principles of Microbiology and Wound Healing
5. Drugs Used in Surgery
6. Anesthesia
7. Asepsis in General Practice
8. Sterilization/Disinfection/Antisepsis
9. The Sterile Field
10. The Pre-Operative Phase
11. The Intra-Operative Phase
12. The Post-Operative Phase
13. Pre-Clinical Preparation

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

*Interim Revision Dates:*

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## **NUR2293 Basic Perioperative Nursing**

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

Upon successful completion of this course, the students should be able to demonstrate the knowledge needed for initial employment as an effective member of the surgical team in both the circulator and scrub roles.

### **II. Units:**

#### **Unit 1. Organization, Philosophy, and Objectives**

##### **General Outcome:**

1.0 The students should be able to demonstrate an understanding of the philosophy, objectives, and goals of Operating Room Nursing, including the duties and responsibilities of each team member for direct patient care.

##### **Specific Learning Outcomes:**

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

- 1.1 Define and discuss the philosophy of the O.R. Service as it relates to quality nursing care.
- 1.2 Discuss the organizational structure of an operating room and differentiate the components and functions of each area.
- 1.3 Discuss the personnel policies of the operating room as it relates to Patient Care Standards.
- 1.4 List and define the duties and responsibilities of each member of the O.R. team with emphasis on the role of the circulator.

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### Unit 2. Environmental Orientation

#### General Outcome:

2.0 The students should be able to demonstrate an understanding of the functions of the various designated areas of the operating suite.

#### Specific Learning Outcomes:

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

- 2.1 Locate and describe the use of designated areas in the O.R. suite.
- 2.2 List and describe the Four Zone Concept used in designing the operating room suite.
- 2.3 Discuss the safety factors included in the designing of an operating room and relate these factors to the elimination of potential hazards in the operating room.
- 2.4 Discuss the optimum communication network utilized in the operating room and state the safety features of that system in relationship to quality nursing care.

### Unit 3. Surgical Terminology

#### General Outcome:

3.0 The students should be able to employ proper medical/surgical terminology.

#### Specific Learning Outcomes:

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

- 3.1 List and define the five word elements that are used in building medical/surgical terminology.
- 3.2 Recognize and use surgical terms and standard abbreviations associated with O.R. nursing.
- 3.3 Define the surgery to be performed and the service involved when given a list of operative procedures.

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### Unit 4. Principles of Microbiology and Wound Healing

General Outcome:

4.0 The students should be able to demonstrate an understanding of microbiology and pathology as related to surgical procedures.

Specific Learning Outcomes:

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

- 4.1 Describe the bacterial structure and physiology of a microorganism.
- 4.2 List and describe the environmental factors necessary for growth and reproduction of bacteria.
- 4.3 Contrast the pathogenic microorganism with the non-pathogenic microorganism and relate this information to the surgical patient.
- 4.4 Describe the preventative methods used in the O.R. to prevent disease transmission.
- 4.5 State and compare the three stages of wound healing.
- 4.6 List and describe the major factors that can influence the rate of healing and state the reasons for this occurrence.

### Unit 5. Drugs Used in Surgery

General Outcome:

5.0 The students should be able to discuss the major application of pharmacology in relation to surgical procedures.

Specific Learning Outcomes:

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

- 5.1 List and describe the nine drug classifications commonly used with the surgical patient.
- 5.2 Describe the major actions and uses of specific drugs listed with each classification.
- 5.3 List and describe the correct procedure of usage for controlled drugs as it pertains to the O.R.
- 5.4 Describe how to dispense and use medications safely in the operating room.

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### Unit 6. Anesthesia

#### General Outcome:

6.0 The students should be able to demonstrate knowledge of general anesthetics and an understanding of nursing considerations regarding anesthesia during surgical procedures.

#### Specific Learning Outcomes:

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

- 6.1 List and describe the four methods for administering anesthesia and state the criteria for each method.
- 6.2 List the general anesthesia used and briefly describe the advantages and disadvantages of each.
- 6.3 List the agents used in spinal and regional anesthesia and briefly describe the advantages and disadvantages of each.
- 6.4 Describe briefly the four stages of anesthesia and state the nursing considerations during each stage.
- 6.5 Describe the post-operative precautions that are associated with specific anesthesia agents.

### Unit 7. Asepsis in General Practice

#### General Outcome:

7.0 The students should be able to identify and discuss the variety of microorganisms associated with health and disease and their relationship with the operating room environment.

#### Specific Learning Outcomes:

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

- 7.1 State the eight basic principles for performing patient care in the operating room.
- 7.2 List the three check points to remember before opening and dispensing sterile supplies.
- 7.3 Describe how to:
  - A. Open a sterile tray or basin
  - B. Deliver sterile contents to a sterile surface or person.
  - C. Pour sterile solutions into a sterile container.

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### Unit 8. Sterilization/Disinfection/Antisepsis

General Outcome:

8.0 The students should be able to explain the principles and practices of aseptic and sterilization technique used in the O.R.

Specific Learning Outcomes:

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

- 8.1 Discuss and compare the effectiveness and methods of sterilization used in the O.R.
- 8.2 List and describe the three basic factors which help to determine the method of sterilization to be used.
- 8.3 List and describe the four critical variables in gas sterilization.
- 8.4 Describe how to:
  - A. Prepare instruments and equipment for sterilization.
  - B. Utilize the "flash autoclaves" located in the O.R.
  - C. Utilize the washer-sterilizer and the ultrasonic cleaner for specific articles.

### Unit 9. The Sterile Field

General Outcome:

9.0 The students should be able to demonstrate an understanding of nursing considerations regarding the sterile field.

Specific Learning Outcomes:

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

- 9.1 Compare the activities that occur within the sterile field with those performed outside the sterile field.
- 9.2 List and differentiate the duties and responsibilities of the circulator and the scrub and compare them to sterile/non-sterile field activities.
- 9.3 Identify packs, suture, and equipment routinely associated with cases.
- 9.4 Demonstrate the ability to:
  - A. Prepare a room for a surgical procedure.
  - B. Perform a sterile scrub according to accepted technique.

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- C. Properly don sterile gown and gloves.
- D. Open sterile supplies and equipment.

### **Unit 10. The Pre-Operative Phase**

#### **General Outcome:**

10.0 The students should be able to discuss the duties and responsibilities of the O.R. nurse as they relate to the pre-operative phase.

#### **Specific Learning Outcomes:**

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

- 10.1 Discuss Maslow's Theory of Human Needs as it applies to assessing and caring for the surgical patient.
- 10.2 Recognize all permits and consent forms commonly used for the surgical patient.
- 10.3 List and describe the pre-operative tests and procedures routinely ordered for the surgical patient and recognize deviations from the normal values.
- 10.4 Describe how to:
  - A. Admit a patient to the surgical area.
  - B. Perform a pre-operative assessment of the patient.

### **Unit 11. The Intra-Operative Phase**

#### **General Outcome:**

11.0 The students should be able to discuss the duties and responsibilities of the O.R. nurse as they relate to the intra-operative phase.

#### **Specific Learning Outcomes:**

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

- 11.1 List and describe the responsibilities of the scrub nurse before, during, and after the surgical procedure.
- 11.2 List and describe the responsibilities of the circulating nurse before, during, and after the surgical procedure.

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11.3 Describe how to:

- A. Position a patient on the operating room table.
- B. Perform a surgical skin prep.
- C. Perform a sponge, needle, and instrument count at the proper intervals.
- D. Keep accurate records during the procedure.
- E. Use effectively and safely all equipment required during a procedure.
- F. Collect and dispense specimens received during a procedure.

### Unit 12. The Post-Operative Phase

General Outcome:

12.0 The students should be able to discuss the duties and responsibilities of the O.R. nurse as they apply to the post-operative phase.

Specific Learning Outcomes:

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

- 12.1 Discuss the principles and technique for applying a sterile dressing.
- 12.2 Describe how to transfer and transport a patient via stretcher to the P.A.R. Unit.
- 12.3 Discuss the immediate post-operative assessment techniques used in the P.A.R.

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### Unit 13. Pre-Clinical

#### General Outcome:

13.0 The students should be able to demonstrate an understanding of the skills and knowledge required of a Registered Nurse in the O.R.

#### Specific Learning Outcomes:

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

- 13.1 Anatomy
- 13.2 Psychological aspect
- 13.3 Aseptic techniques
- 13.4 Skin Preparation
- 13.5 Positioning
- 13.6 Instrumentation
- 13.7 Suture and Supplies
- 13.8 Special Equipment
- 13.9 Specimen
- 13.10 Medication and Anesthesia