

**REGISTERED NURSING PROGRAM**  
**NURSING 83PL - PHARMACOLOGY III**  
**Laboratory**

## **SYLLABUS**

**UNITS:**

1/2 Unit

**PREREQUISITES:**

Same as Nursing 83P  
Co-requisites: Nursing 83P

**FOREWORD:**

Pharmacology III Laboratory objectives will be met in the Campus Skills Laboratory. The focus of the course is to provide the student pharmacology skill application with emphasis on maternal and child populations. Practice of venipuncture and blood withdrawal will also be provided. Concepts of advanced vascular access, chemotherapy and parenteral nutrition will be addressed.

As evidenced by the course objectives, the student will continue to incorporate concepts of pharmacology into De Anza College's Associate Degree Nursing program. Legal and ethical issues and safety principles will be stressed throughout this course as an integral part of nursing practice.

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## **COURSE OBJECTIVES:**

1. Apply principles of medication administration in meeting health deviation self care requisites.

### **Laboratory Objectives:**

- 1.1 Identify four veins used for IV and blood therapy using a diagram or own arm.
  - 1.2 Give a reason why each identified vein may be used.
  - 1.3 Select an appropriate vein based on the client, type of infusion, condition of vein and duration of the IV and blood therapy.
  - 1.4 Identify heparin/saline locks and give a reason for their use.
  - 1.5 Identify reasons for peripheral IVs
  - 1.6 Identify two types of Hickman catheter.
  - 1.7 Identify difference between PICC line and landmark line (midline).
  - 1.8 Give a reason for implanted port.
  - 1.9 Identify other means of IV therapy and blood therapy/withdrawal for pediatric and neonatal clients.
  - 1.10 Identify equipment used for infusing blood products.
  - 1.11 Describe three methods for stabilizing and maintaining IV and blood.
  - 1.12 Perform dressing change for IV and blood.
2. Demonstrate the role of the nurse in medication administration.
    - 2.1 Select appropriate needle or catheter.
    - 2.2 Apply a tourniquet.
    - 2.3 Prepare the site for venipuncture using CDC guidelines.
    - 2.4 Perform three methods of taping.
    - 2.5 Discontinue an intravenous infusion/needle/catheter.
    - 2.6 Document each procedure.
    - 2.7 Identify three measures the nurse can take to minimize the chance of infection during IV and blood therapy.
    - 2.8 List five nursing responsibilities for clients receiving TPN.
    - 2.9 List three nursing responsibilities for clients receiving chemotherapy.
    - 2.10 List nursing responsibilities for other means of IV therapy and blood withdrawal for pediatric and neonatal clients.
    - 2.11 Follow OSHA guidelines and QSEN principles for the safe administration of all medications

## **LABORATORY TOPICAL OUTLINE:**

### **WEEK 1**

1. Identification of veins used for IV and blood therapy/withdrawal
  - a. reasons why each used
  - b. selection criteria

### **WEEK 2**

1. Varieties of catheters
2. Understand usage of each
3. Understand similarities and differences of each

### **WEEK 3**

1. Other means of IV and blood therapy/withdrawal of pediatric and neonatal clients.

### **WEEK 4**

1. Equipment for infusion of therapies and withdrawal

### **WEEK 5**

1. Methods for stabilizing and maintaining therapies
2. Variety of dressings available

### **WEEKS 6, 7 and 8**

1. Select appropriate needle/catheters
2. Practice venipuncture.
3. Practice stabilization methods.
4. Perform dressing changes.

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5. Discontinuation of intravenous/needle/catheter.
6. Documentation

**WEEK 9**

1. Practice skills as in weeks 6, 7 and 8
2. Discussion of responsibilities with TPN

**WEEK 10**

1. Practice skills as in weeks 6, 7 and 8
2. Discussion of responsibilities with chemotherapy

**WEEK 11**

1. Practice skills as in weeks 6, 7 and 8
2. Discussion of responsibilities with other means specific to pediatric and neonatal clients.

**WEEK 12**

**SKILLS TESTING COMPLETED**

## **REFERENCES:**

Required:

1. Adams, Holland & Urban. Pharmacology for Nurses- A Pathophysiologic Approach, 4<sup>th</sup> ed. Pearson. (2014)
2. Syllabus for Nursing 83PL- Pharmacology Lab.
3. A drug reference handbook
4. A medical/nursing dictionary

## **STUDENT EXPECTATIONS:**

### **General**

1. Students are to be familiar with the published guidelines for performance and abide by the guidelines at all times.
2. Students are to read assigned material and be prepared for all classroom and laboratory sessions. Assignments for classroom and laboratory sessions for this course are included.
3. Students are expected to demonstrate retention of previously learned objectives and incorporate theory principles in all interactions.
4. Students are expected to transfer theory from required courses in the natural and behavioral sciences as well as speech and English into the applied science of nursing.

### **Skills Laboratory**

1. Experiences in the campus laboratory will be demonstrated by an instructor and practiced by the student. A satisfactory return demonstration will be required.
2. The campus laboratory will be open for practice at scheduled times. Supervision will be available as posted.

## **SKILLS LAB EVALUATION**

The Skills Lab evaluation for this course has been designed to measure venipuncture competency. The students are required to complete six (6) venipunctures, (three butterflies and three cathlons/angiocaths), securing and stabilizing the catheters in appropriate manners using the principles of client safety and aseptic technique. All venipunctures must be completed and supervised by the end of week 11 of the course.

## **THIS COURSE IS PASS/NO PASS**