San Bernardino Valley College Course Outline for PHT 041 PHARMACY SYSTEMS

I. CATALOG DESCRIPTION

PHT 041 Pharmacy Systems

2 hours lecture: 3 hours of lab = 3 units

This course focuses on the application of advanced distribution and dispensing methods for medications within a laboratory setting. Emphasizes advanced concepts of inventory control and repackaging systems.

Prerequisites: PHT 030 and PHT 031

II. NUMBER OF TIME COURSE MAY BE TAKEN FOR CREDIT: One

III EXPECTED OUTCOMES FOR STUDENTS

Upon completion of the course the student should be able to:

- A. Repackage and label unit doses from a bulk supply of drugs and correctly complete all necessary control records.
- B. Read and interpret prescriptions, select correct drug, select appropriate container, type correct label.
- C. Prepare Intravenous Admixtures, using sterile technic and appropriate labeling.
- D. Explain safety precautions and identify types of drugs requiring special handling.
- E. Describe the procedure for handling of investigation and study drugs.
- F. Explain the required procedure for ordering, receiving and the storage of drugs.
- G. Demonstrate the ability to use control records for medications requiring special handling.
- H. Demonstrate the ability to maintain an inventory control system.
- I. Demonstrate the ability to use a computer for pharmacy operations.

IV. CONTENT

- A. Purchasing and Inventory Control
 - 1. Receiving and storing pharmaceuticals
 - 2. Maintaining and managing inventory
 - 3. Products requiring special handling and safety precautions
 - 4. Repackaged pharmaceuticals
- B. Distribution Systems
 - 1. Unit dose delivery system
 - 2. Preparation of prescriptions
 - 3. Prevention of errors
 - 4. Record keeping
- C. Non-Sterile Compounding
 - 1. Equipment
 - 2. Common compounded products
- D. Sterile Compounding
 - 1. Aseptic technic
 - 2. Intravenous admixtures
 - 3. Parenteral Nutrition
- E. Pharmacy Operations

- 1. Computerized operations
- 2. Inventory control
- 3. Pricing
- 4. Patient profiles

V. METHODS OF INSTRUCTION

- 1. Lecture
- 2. Demonstration
- 3. Return demonstration by students
- 4. Simulated exercises

VI TYPICAL ASSIGNMENTS

- 1. Prepare five intravenous admixtures using sterile technic.
- 2. Demonstrate the removal of medications from Vials and Ampules
- 3. Prepare a report listing drugs requiring special handling including specific procedures to be followed in each case.

VII. EVALUATION

- A. Methods of evaluation
 - 1. Mastery of skills
 - 2. Examinations
 - 3. Quizzes
 - 4. Written report
 - 5. Final Examination
- B. Frequency of evaluation
 - 1. Immediate feedback on performance of skills
 - 2. Four examinations
 - 3. One report
 - 4. Final Examination

VIII. TYPICAL TEXT

Buchanan, E. Clyde et.al. <u>Principles of Sterile Product Prepartion</u>. Bethesda, Maryland: American Society of Health-System Pharmacist, 1995.

ASHSP. <u>Manual for Pharmacy Technicians</u>. Bethseda, Maryland: American Society of Health-System Pharmacist, 1998.

IX OTHER SUPPLIES REQUIRED: None