

PHM 111
PHARMACY PRACTICE I

COURSE DESCRIPTION:

Prerequisites: Enrollment in the Pharmacy Technology program or permission of the program director

Corequisites: PHM 110 and PHM 115

This course provides instruction in the technical procedures for preparing and dispensing drugs in the hospital and retail settings under supervision of a registered pharmacist. Topics include drug packaging and labeling, outpatient dispensing, hospital dispensing procedures, controlled substance procedures, inventory control, and non-sterile compounding. Upon completion, students should be able to perform basic supervised dispensing techniques in a variety of pharmacy settings. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

LEARNING OUTCOMES:

Upon successful completion of the course, the student will be able to:

- a. Explain and demonstrate technical procedures for preparing and dispensing drugs in an institutional setting under the supervision of a registered pharmacist
- b. Explain and demonstrate technical procedures for preparing and dispensing drugs in an ambulatory care setting under the supervision of a registered pharmacist
- c. Specify and perform drug packaging, labeling, and appropriate recordkeeping exercises associated with various pharmacy practice settings
- d. Specify and perform controlled substance dispensing and documentation in an out-patient setting
- e. Specify and perform controlled substance issuing and documentation in an institutional setting
- f. Generalize introductory purchasing and inventory control concepts
- g. Describe and demonstrate non-sterile compounding techniques and documentation used in assigned laboratory preparations
- h. Commit to memory the top 200 prescriptions dispensed in the United States
- i. Research and orally communicate assigned categories of commonly sold over-the-counter products
- j. Review and interpret examples of prescriptions and medication orders
- k. Perform computer applications utilizing the Pharmacy Technology program's institutional and ambulatory software

OUTLINE OF INSTRUCTION:

- I. Review and understand the course description and learning outcomes
- II. Explain and demonstrate technical procedures for preparing and dispensing drugs in an institutional setting under the supervision of a registered pharmacist as listed below:
 - A. Organization and functions of centralized and decentralized pharmacies
 - B. Pharmacist supervision of technician's work
 - C. Establishing patient profile records
 - D. Interpretation and processing of medication orders

- E. Computer applications
 - F. Unit-dose procedures
 - G. Individual patient supply procedures
 - H. Issuing of floor stock
 - I. Automated dispensing systems introduced during hospital pharmacy tours
- III. Explain and demonstrate technical procedures for preparing and dispensing drugs in an ambulatory care setting under the supervision of a registered pharmacist as listed below:
- A. Organization and functions of retail pharmacies
 - B. Pharmacist supervision of technician's work
 - C. Establishing patient profile records
 - D. Interpretation and processing of prescriptions
 - E. Computer applications
 - F. Pharmacist's role in patient counseling
 - G. Drug selection and preparation
 - H. Packaging and labeling guidelines in outpatient settings
 - I. Documentation of initial prescription processing and refills
 - J. Automated dispensing systems introduced during outpatient clinic tour
- IV. Specify and perform drug packaging and labeling principles, procedures and appropriate recordkeeping exercises associated with various pharmacy practice settings as listed below:
- A. Batch repackaging and labeling unit-dose medications
 - B. Extemporaneous repackaging and labeling
 - C. Documentation in repackaging exercises
 - D. Current Good Manufacturing Practices
 - E. Use of bar-coding in product identification
 - F. Computer applications
- V. Describe and demonstrate non-sterile compounding techniques and documentation forms as listed below:
- A. Examples of non-sterile compounds
 - B. Examples of non-sterile compounding ingredients
 - C. Supplies and equipment used in non-sterile compounding procedures
 - D. Packaging, labeling, and recordkeeping guidelines
 - E. Preparation of assigned products
 - F. Computer applications
- VI. Commit to memory the top 200 prescriptions dispensed in the United States
- VII. Research and orally communicate assigned categories of commonly sold over-the-counter products listed below:
- A. Diabetic products
 - B. External and internal analgesics
 - C. Antacids, emetics, and antiemetics
 - D. Laxatives and antidiarrheals
 - E. Cold and allergy products

- F. Otic, ophthalmic, nasal, rectal, and vaginal products
- G. Vitamins and minerals
- H. Weight control products
- I. Contraceptives
- J. Seasonal products

VIII. Generalize introductory purchasing and inventory control concepts listed below:

- A. Manufacturer's expiration dates
- B. Computer applications
- C. Stock rotation
- D. Drug storage conditions

IX. Specify and perform controlled substance dispensing and recordkeeping in out-patient settings as listed below:

- A. Schedules of controlled substances
- B. Examples of drugs in each schedule
- C. Refill restrictions on different schedules of controlled substances
- D. Security of controlled substances
- E. Recordkeeping required with dispensing controlled substances

X. Specify and perform controlled substance issuing and documentation in institutional settings as listed below:

- A. Storage and security of controlled substances in various areas of the hospital
- B. Issuing controlled substances to various areas of the hospital
- C. Recordkeeping required with issuing and administration of controlled substances
- D. Documentation of wasted controlled substances
- E. Utilization of record-of-use sheets
- F. Control and distribution with automated dispensing cabinets

REQUIRED TEXTBOOKS:

Manual for Pharmacy Technicians, American Society of Health-System Pharmacists. 4th ed. 2010.

STATEMENT FOR STUDENTS WITH DISABILITIES:

Students who require academic accommodations due to any physical, psychological, or learning disability are encouraged to request assistance from a disability services counselor within the first two weeks of class. Likewise, students who potentially require emergency medical attention due to any chronic health condition are encouraged to disclose this information to a disability services counselor within the first two weeks of class. Counselors can be contacted by calling 919-536-7207, ext. 1413 or by visiting the Student Development Office in the Phail Wynn Jr. Student Services Center, room 10-209.