

# PHARMACY TECHNOLOGY (PHM)

## PHM-1300 Introduction to Pharmacy Practice 3 Credits

Overview of fundamentals of pharmacy practice including technician's role in drug distribution in various settings, pharmacy abbreviations and terminology, management, organizations, information resources, regulations, law and ethics.

*Lecture: 3 hours*

*Prerequisite(s): ENG-0995 Applied College Literacies, or appropriate score on English Placement Test; or departmental approval. Note: ENG-0990 Language Fundamentals II taken prior to Fall 2021 will also meet prerequisite requirements. CTAN Approved: Career Technical Assurance Guide CTPT001 (2 of 2 courses, both must be taken).*

## PHM-1350 Pharmacy Practice I 3 Credits

Overview of fundamentals of pharmacy practice in various practice settings with respect to safe and accurate preparation and distribution of parenteral medications. Students learn the technician's role in drug preparation, drug packaging, and drug labeling.

*Lecture: 2 hours. Laboratory: 3 hours*

*Prerequisite(s): Departmental approval: admission to program.*

## PHM-1360 Pharmacy Practice II 3 Credits

Fundamentals of pharmacy practice including technician's role in drug distribution in community, home health care, nursing home, and alternative practice settings. Focuses on oral and topical dosage forms including handling, preparation, packaging, labeling, and distribution.

*Lecture: 2 hours. Laboratory: 3 hours*

*Prerequisite(s): PHM-1350 Pharmacy Practice I, or departmental approval.*

## PHM-1450 Pharmacology and Therapeutic Principles I 3 Credits

Overview of fundamentals of pharmacology including drug classification, brand and generic drug nomenclature, common drug therapy associated with various disease states, drug indications, side effects, and parameters for safe drug usage.

*Lecture: 3 hours*

*Prerequisite(s): Departmental approval: admission to program.*

## PHM-1460 Pharmacology and Therapeutic Principles II 3 Credits

Fundamentals of pharmacology including drug classification, brand and generic drug nomenclature, common drug therapy associated with various disease states, drug indications, side effects, and parameters for safe drug usage.

*Lecture: 3 hours*

*Prerequisite(s): PHM-1450 Pharmacology and Therapeutic Principles I, or departmental approval.*

## PHM-1751 Medication Calculations for Sterile Preparations 1 Credit

Applications and activities to build skills in medication calculations related to sterile preparations for pharmacy, nursing, and allied health. Includes metric system, formula manipulation, solving algebraic equations and systems, body surface area (BSA), and weight-based dose calculations. Basic skill reviews for metric system, fractions, ratios and percentages.

*Lecture: 1 hours*

*Prerequisite(s): MATH-0955 Beginning Algebra or appropriate math placement score; or departmental approval.*

## PHM-1760 Calculations for Compounding and Dispensing 1 Credit

Applications and activities to build skills in medication calculations, conversions, and measurements related to medication compounding and dispensing. Includes children's dosages, weight-based dose calculations, prescription filling, billing, and inventory applications using metric system, formula manipulation, algebraic systems and equations. Basic skill reviews on fractions, ratios and percentages.

*Lecture: 1 hours*

*Prerequisite(s): MATH-0955 Beginning Algebra or appropriate math placement score; or departmental approval.*

## PHM-1860 Pharmacy Technology Practicum I 3 Credits

Supervised practical field experience designed to emphasize role of technician in various traditional practice settings. Students assigned to practicum training sites and work under direct supervision of registered pharmacists and certified pharmacy technicians to gain exposure to professional practices.

*Lecture: 1 hour*

*Other Required Hours: Practicum: 14 hours per week. Seminar: 1 hour per week.*

*Prerequisite(s): PHM-1300 Introduction to Pharmacy Practice; and PHM-1350 Pharmacy Practice I or PHM-1360 Pharmacy Practice II; and PHM-1450 Pharmacology and Therapeutic Principles I or PHM-1460 Pharmacy and Therapeutic Principles II; and departmental approval: site assignments.*

## PHM-2080 Pharmacy Technician Examination Review 1 Credit

Global review of pharmacy practice, pharmacy law, pharmacology, compounding, and calculations. Test taking skills and registration procedure covered. Special focus on exam content outline topics to assist student preparing to take certification examinations for pharmacy technicians.

*Lecture: 1 hours*

*Prerequisite(s): PHM-1360 Pharmacy Practice II, or concurrent enrollment, or departmental approval may be extended to students with adequate documentation showing familiarity with pharmacy practice and ability to perform calculations.*

*OAN Approved: CTAN Approved: Career Technical Assurance Guide CTPT002 (1 of 2 courses, both must be taken).*

### **PHM-2701 Current Topics in Pharmacy Practice**

#### **4 Credits**

Capstone course in Pharmacy Technology. Current topics and changes in practice of pharmacy detailed. Among topics discussed: major trends, issues, and initiatives in pharmacy and healthcare; evolving roles of pharmacists and pharmacy technicians and the interpersonal knowledge and skills required in the pharmacy environment; medication safety practices; current health issues facing men, women, and children of diverse cultures; emerging therapies and the drug approval process; and wellness promotion.

*Lecture: 4 hours*

*Prerequisite(s): PHM-1350 Pharmacy Practice I or concurrent enrollment; and PHM-1360 Pharmacy Practice II; and PHM-1860 Pharmacy Technology Practicum I or concurrent enrollment; and departmental approval.*

*OAN Approved: CTAN Approved: Career Technical Assurance Guide CTPT002 (2 of 2 courses, both must be taken).*

### **PHM-2820 Advanced Independent Study/Research in Pharmacy Technology**

#### **1-3 Credits**

Directed individual advanced study. Study/research title and specific content arranged between instructor and student. May be repeated for a maximum of six credits of different topics.

*Lecture: 1-3 hours*

*Prerequisite(s): Departmental approval, and instructor approval, and ENG-0995 Applied College Literacies, or appropriate score on English Placement Test. Note: ENG-0990 Language Fundamentals II taken prior to Fall 2021 will also meet prerequisite requirements.*

### **PHM-2860 Pharmacy Technology Practicum II**

#### **3 Credits**

Supervised practical field experience designed to emphasize role of technician in various traditional practice settings. Students assigned to practicum training sites and work under direct supervision of registered pharmacists and certified pharmacy technicians to gain exposure to professional practices. Students will build on experience gained in previous practicum assignment.

*Lecture: 1 hour*

*Other Required Hours: Practicum: 14 hours per week. Seminar: 1 hour per week. Note: Course does not include a lecture hour; listed lecture hour reflects contact time for required seminar.*

*Prerequisite(s): PHM-1860 Pharmacy Technology Practicum I, PHM-2701 Current Topics in Pharmacy Practice or concurrent enrollment, and departmental approval.*

*OAN Approved: CTAN Approved: Career Technical Assurance Guide CTPT003.*

### **PHM-2870 Pharmacy Technology Practicum III**

#### **3 Credits**

For students pursuing experience in IV admixture, sterile technique, or other advanced pharmacy practice. Supervised practical field experience. Students assigned to practicum training sites and work under direct supervision of registered pharmacists and certified pharmacy technicians to gain exposure to professional practices. Students will build on experience gained in previous practicum assignments.

*Lecture: 1 hour*

*Other Required Hours: Practicum: 14 hours per week. Seminar: 1 hour per week.*

*Prerequisite(s): PHM-2860 Pharmacy Technology Practicum II, and departmental approval.*