

Pharmacology

Pharmacology Degrees and Certificates

- Pharmacy Technician

Pharmacology Classes

PHARM 101: Foundations of Pharmacology in Nursing

This course introduces the student to pharmacology. Pharmacologic concepts included in this course are pharmacokinetics, routes of administration, dosage calculation, therapeutic effects, side and adverse effects, interactions, contraindications, and principles of safe medication administration.

Credits 1

Weekly Contact Hours 1

Meets Degree Requirements For

Restricted Elective

Prerequisites

Acceptance into WVC Nursing Program with concurrent enrollment in NUTR 105, PSYC 105, PHIL 105, NURS 101, 121, 141, 151 and 161.

PHARM 102: Pharmacology In Nursing II

Pharmacodynamics, pharmacokinetics and pharmacotherapeutics of drugs. This course discusses safety concerns related to scope of practice, accurate dosage calculations, medication administration and monitoring, route of administration, as well as special considerations across the lifespan in prevention and treatment of chronic illness.

Credits 1

Weekly Contact Hours 1

Meets Degree Requirements For

Restricted Elective

Prerequisites

Acceptance to the Nursing Program and concurrent enrollment with the following: [NURS 102](#), [NURS 152](#), [NUTR 106](#), PHARM 102

PHARM 103: Pharmacology In Nursing III

Pharmacodynamics, pharmacokinetics and pharmacotherapeutics of medications used to treat chronic health problems and infections. This course discusses the safety concerns related to scope of practice, accurate dosage calculations, medication administration and monitoring, and route of administration, with a focus on use of the intravenous route.

Credits 1

Weekly Contact Hours 1

Meets Degree Requirements For

Restricted Elective

Prerequisites

Acceptance to Nursing Program

PHARM 110: Introduction to Pharmacy and Pharmacy Law

This course provides an introductory instructional learning of duties and responsibilities of a pharmacy technician. Students review pharmacy law as it pertains to the practice of pharmacy in the state of Washington and federal regulations.

Credits 5

Weekly Contact Hours 5

Meets Degree Requirements For

Restricted Elective

Prerequisites

Acceptance into the Pharmacy Technician Program or Instructor Permission

PHARM 120: Pharmacy Calculations

Students are introduced to the application of basic math skills to real-life scenarios in pharmacy technician career fields. Students review basic skills and complete dosage calculations for IVs, tablets, liquids and injectables. Students learn to additional calculations use for body surface area, chemotherapy and pediatric dosing.

Credits 3

Weekly Contact Hours 3

Meets Degree Requirements For

Restricted Elective

Prerequisites

Acceptance into the Pharmacy Technician Program or Instructor Permission

PHARM 130: Over-The-Counter Drugs

Students will learn about non-prescription medications, dietary supplements, and other self-care remedies available to treat many different medical conditions. This course will help gain a better understanding of how non-prescription and self-care products can be used safely and effectively.

Credits 3

Weekly Contact Hours 3

Meets Degree Requirements For

Restricted Elective

Prerequisites

Acceptance into the Pharmacy Technician Program or Instructor Permission

PHARM 140: Pharmacology II

Introduces the study of the properties, effects and therapeutic value of the primary agents in the major drug categories. Upon completion, students should be able to place major drugs into correct therapeutic categories and identify indications, side effects and trade and generic medication names.

Credits 5

Weekly Contact Hours 5

Meets Degree Requirements For

Restricted Elective

Prerequisites

Acceptance into the Pharmacy Technician Program or Instructor Permission

PHARM 141: Pharmacology III

Providing continuation of the study of properties, effects and therapeutic value of the primary agents in the major drug categories. Upon completion, students should be able to place major drugs in correct therapeutic categories and identify indications, side effects and trade and generic names.

Credits 5

Weekly Contact Hours 5

Meets Degree Requirements For

Restricted Elective

Prerequisites

Acceptance into the Pharmacy Technician Program or Instructor Permission

PHARM 150: Intro to Pharmacy Compounding

Students develop proficiency in the skills necessary for successful compounding technique and practice. Students are introduced to the United States Pharmacopeia's General Chapter Pharmaceutical Compounding-Non-Sterile Preparations <795> and Sterile Preparations <797>. Student will have simulated lab experience that applies pharmaceutical preparation compounding guidelines. United States Pharmacopeia (USP) Guidelines and Washington Administrative Code (WAC) regulations governing the practice of compounding are emphasized.

Credits 5

Weekly Contact Hours 7

Meets Degree Requirements For

Restricted Elective

Prerequisites

Acceptance into the Pharmacy Technician Program or Instructor Permission

PHARM 151: Sterile Preparations

Continuation of PHARM 150 providing continuation of the study United States Pharmacopeia's (USP's) General Chapter Pharmaceutical Compounding-Sterile Preparations <797> . Students will demonstrate compliance with fundamental aseptic technique requirements.

Credits 5

Weekly Contact Hours 7

Meets Degree Requirements For

Restricted Elective

Prerequisites

Acceptance into the Pharmacy Technician Program or Instructor Permission

PHARM 170: Pharmacy Operations

This course simulates daily activities in pharmaceutical practice settings. Topics include: order entry processes, medication distribution systems, inventory, prescription processing, billing, repackaging, floor stock and controlled substance distribution, pharmaceutical computer systems, utilization of drug information resources and proper communication techniques.

Credits 4

Weekly Contact Hours 5

Meets Degree Requirements For

Restricted Elective

Prerequisites

Acceptance into the Pharmacy Technician Program or Instructor Permission

PHARM 210: Hospital Externship

Application of knowledge and skills in an unpaid experience in a hospital pharmacy setting.

Credits 4

Weekly Contact Hours 8

Meets Degree Requirements For

Restricted Elective

Prerequisites

Acceptance into the Pharmacy Technician Program or Instructor Permission

PHARM 220: Community Externship

Application of knowledge and skills in an unpaid experience in a community pharmacy setting.

Credits 3

Weekly Contact Hours 6

Meets Degree Requirements For

Restricted Elective

Prerequisites

Acceptance into the Pharmacy Technician Program or Instructor Permission

PHARM 230: Externship III

Application of knowledge and skills in an unpaid experience in specialty pharmacy setting.

Credits 3

Weekly Contact Hours 6

Meets Degree Requirements For

Restricted Elective

Prerequisites

Acceptance into the Pharmacy Technician Program or Instructor Permission

PHARM 231: Portfolio

This course will empower students to enter the workforce through self-reflection and job readiness.

Credits 1

Weekly Contact Hours 1

Meets Degree Requirements For

Restricted Elective

Prerequisites

Acceptance into the Pharmacy Technician Program or Instructor Permission

PHARM 240: Program Conclusion

This conclusion course will help prepare students to succeed on the PTCE and enter into the workforce. Course includes Pharmacy calculation review, law and case study as well updates to pharmacy practice.

Credits 1

Weekly Contact Hours 1

Meets Degree Requirements For

Restricted Elective

Prerequisites

Acceptance into the Pharmacy Technician Program or Instructor Permission