

Courses and Course Descriptions

PHAR 111 Physiology I (4 units)

This course will provide foundational physiological principles, and an introduction to the Nervous, Cardiovascular and Respiratory systems at organ, cellular and molecular levels.

PHAR 115 Dispensing, Compounding, And Calculations (3 units)

This course covers pharmacy dispensing related topics. Using medications from the Top Drugs list, students will learn how to provide effective consultations, how to communicate effectively with health care professionals, and the process of dispensing medications. Other topics covered in this course include Interpretation of common pharmacy sig abbreviations, brand and generic names of the top medications as well as the major therapeutic use for the majority of those drugs. Students will learn basic non-sterile compounding skills and parenteral compounding skills. This course also covers mathematical concepts as they apply to the practice of pharmacy.

PHAR 116 Principles of Biological Mechanisms (4 units)

This course covers the molecular structure of proteins, nucleic acids, and lipids and the biological mechanisms at the molecular level with focus on rational drug design.

PHAR 117 Principles and Application of Dosage Forms (4 units)

This course will provide foundational knowledge about physicochemical properties and different traditional and advanced dosage forms. In this course, students will learn how the drug development and approval process work in US. This will be followed by the introduction of physicochemical principles of pharmacy that form the basis in the design of rational formulation, preparation/compounding, quality control, stability, packaging, and storage of pharmaceutical dosage forms.

PHAR 121 Professional Communications (1 unit)

An introduction to the roles and responsibilities of the pharmacist in general and in various practice settings with a focus on professional communications and development of professional behaviors.

PHAR 122 Drug Information Resources & Technology (1 unit)

This course will focus on the application of drug information to healthcare and the pharmacy profession

PHAR 213 Drug Disposition I (3 units)

This course is designed to introduce the basic pharmacokinetic concepts by focusing on the fundamental principles of absorption, distribution and elimination that govern drug behavior in the body.

PHAR 221 Biostatistics and Research Design (2 units)

This course will focus on the theory, methods and processes used in differing types of research designs seen in healthcare. It will also include information on and an analysis and discussion of the mathematical tools used in testing hypotheses and presenting and making sense of the data collected from research, especially data collected from random samples from the population. This will include a review of scientific methods, forming hypotheses, designing/analyzing interventional and observational studies, processes for gathering data, techniques for summarizing the data collected and drawing inferences from data. An introduction to probability and descriptive statistics will be presented, followed by detailed descriptions of widely used inferential procedures and statistical options. Journal articles from pharmacy, healthcare and epidemiology will be used as examples to enhance the discussions and improve understanding.

PHAR 231 Pharmacy Skills II-Outpatient Care (1 unit)

Pharmacy practice skills course will build on previous and current course knowledge and content and encompass the application to practice like activities and simulations. The skills based course experiences relate to effective patient counseling for the advanced dispensing of most commonly prescribed, select non-prescription medications including pharmacist furnishing of products such as Naloxone and Plan B, etc. Students will learn and practice the skills involved in over-the-counter (OTC) therapeutics, patient counseling and motivational interviewing. Students will learn how to gather subjective patient data using patient interviewing and history gathering techniques and how to collect objective patient data. Students will participate in simulated patient scenarios and/or cases using the Pharmacist Patient Care Process (PPCP) requiring students to navigate electronic health records (EHRs) to identify drug related therapy problems and develop drug therapy plans. Implementation, documentation, and communication of drug therapy plans will be developed using standardized formats such as SOAP (subjective objective assessment plan) notes and SBAR (situation background assessment recommendation) model.

PHAR232 Clinical Assessment (1 unit)

Students will learn how to collect, evaluate, and assess clinical data such as laboratory values, physical assessment findings, and diagnostic tests using various written and electronic resources including electronic health records, electronic databases, and/or written patient case studies.

PHAR 241 Nonprescription Therapy & Self Care (2 units)

Principles of triage and self-care using non-prescription pharmacotherapy and dietary supplements.

PHAR 251 Community I Introductory Pharmacy Practice Experience (IPPE) (2 units)

A practice-based introductory experience focusing on the role of the Pharmacist/Pharmacy Intern in a community pharmacy practice. This course is designed to allow students to participate in the delivery of pharmaceutical care.

PHAR 311 Drug Disposition II (3 units)

This course is designed to expand on the basic pharmacokinetic concepts cover in Drug Disposition I and covers drug metabolism, advanced and clinical pharmacokinetic concepts, pharmacodynamics, drug interactions and pharmacogenetics.

PHAR 321 Health Care Delivery Systems I & Pharmacoeconomics (2 units)

The description and application of economic-based evaluation methods to pharmaceutical products,

PHAR 331 Pharmacy Skills III- Assessment and Counseling (1 unit)

Pharmacy practice skills III will focus on the learning and development of patient care skills necessary for

PHAR 421 Health Care Delivery Systems II (2 units)

This social and behavioral based course will focus on the pharmacist's role in various social and population based programs including the use of CLIA waivers to support point-of-care or clinic based laboratory

PHAR

PHAR 669 Interprofessional Education (1 unit)

This course is a longitudinal course which will provide pharmacy students with an opportunity to learn and collaborate with students from other health professions. These activities will generally include students from medical schools, nurse practitioner program, physician assistant program, dentistry, and/or other allied health professions.

PHAR 751 Advanced Pharmacy Practice Experience (APPE) Capstone I (1 unit)

This is the first of a required, two-semester sequential course for pharmacy students during their advanced pharmacy practice experiences. This course is designed to: 1) prepare students for practice in the profession of pharmacy, 2) build upon didactic knowledge gained previously in the Doctor of Pharmacy

PHAR 757 Advanced Pharmacy Practice Experience (APPE) Elective I (6 units)

This is the first of two elective advanced pharmacy practice experiences that allow the student to explore and develop abilities in an area of interest within the health care industry. This experience may be in a variety of biomedical settings that include patient care, administration, health care system, public health, governmental agency, professional organization, research, academic, pharmaceutical industry, and other biomedical or health related settings.

PHAR 758 Advanced Pharmacy Practice Experience (APPE) Elective II (6 units)

This is the second of two elective advanced pharmacy practice experiences that allow the student to explore and develop abilities in an area of interest within the health care industry. This experience may be in a variety of biomedical settings including patient care, administration, health care system, public health, governmental agency, professional organization, research, academic, pharmaceutical industry, and other biomedical or health related settings.