

# PHARMACY PRACTICE (PHPR)

## **PHPR 502 PRINCIPLES OF ASEPTIC TECHNIQUE 1 Credit Hour**

Introduction to the theory and practices that assure safety and efficacy in the compounding and dispensing of parenteral products.

Instructor: Keith Olsen, PharmD and Judy Neville

Typically Offered: SPRING

## **PHPR 550 LEGAL AND ETHICAL PRINCIPLES I 2 Credit Hours**

Study of the statutes, regulations, and ethical principles governing the practice of pharmacy and the process of ethical decision-making.

Prerequisite: 550 P1 Standing or permission.

Instructor: Allison Dering-Anderson, Pharm. D.

Typically Offered: FALL

Capacity: 70

## **PHPR 552 PHARMACEUTICAL CARE I 2 Credit Hours**

Basic competencies and skills needed to function as a health care provider and as a member of a health-care team.

Prerequisite: P-1 standing or permission.

Instructor: Linda Sobeski, Pharm.D.

Capacity: 70

## **PHPR 554 PROFESSIONAL DEVELOPMENT 3.00 Credit Hours**

The Professional Development course series will introduce students to key components of personal and professional development over the three years of the didactic curriculum. The course series will focus on the areas of interprofessional collaboration, cultural sensitivity, communication, self-awareness, professionalism, innovation and entrepreneurship, and leadership skills. The areas are an important part of a pharmacy students' Continuous Professional Development (CPD). The course will utilize assignments and activities which will enable students to apply the knowledge, skills, behaviors, attitudes, and abilities necessary to work as an effective health care professional and member of the interprofessional team. The course will be the pillar for completion of interprofessional education and co-curricular activities.

Prerequisite: P-1 standing or permission.

Instructor: Donald Klepser, PhD, MBA

Typically Offered: FALL/SPR

## **PHPR 556 PHARMACEUTICAL CARE II 2 Credit Hours**

The Pharmaceutical II course expands upon the elements provided in the Pharmaceutical I course, providing the student with additional communication, drug information, and problem solving skills. In addition, students will be focus on physical assessment skills needed to assess pharmacologic treatment of patients.

Prerequisite: PHPR 552.

Instructor: Paul Dobesh, PharmD/Logan Franck, PharmD

Typically Offered: SPRING

Capacity: 70

## **PHPR 560 PHARMACY & HEALTH CARE 3 Credit Hours**

Study of the economic, social, political, structural, professional, and consumer factors affecting the delivery of health care services and pharmacy practice.

Prerequisite: P-1 standing or permission.

Instructor: Gary Cochran, Pharm.D.

Typically Offered: FALL

Capacity: 70

## **PHPR 562 INTRO TO DRUG INFORMATION 2 Credit Hours**

ELECTIVE

An introduction to drug information library resources and access to these resources.

Prerequisite: P-1 standing or permission.

Instructor: Cynthia Schmidt, MD./Anthony Podany, Pharm.D.

Capacity: 70

## **PHPR 572 INTRO TO CONTEMPORARY COMPOUNDING 1 Credit Hour**

This laboratory course reviews pharmaceutical compounding facilities, equipment, principles and regulations.

Prerequisite: PHSC 550.

Instructor: Shelby Bennett, Pharm D

Capacity: 70

## **PHPR 602 COMMUNITY PHARM CLERKS 4 Credit Hours**

Introductory experiential training in a community pharmacy setting.

Prerequisite: P-2 standing and registration as an intern with the Nebraska Department of Health and Human Services and, if applicable, registration as an intern (or other designation used), if required, with Board of Pharmacy of the practice site's state.

Typically Offered: FALL

Capacity: 90

## **PHPR 604 INSTITUTIONAL PHARMACY 3 Credit Hours**

Introductory experiential training in institutional practice.

Prerequisite: P-2 or P-3 standing and registration as an intern with the Nebraska Department of Health and Human Services and, if applicable, registration as an intern (or other designation used), if required, with Board of Pharmacy of the practice site's state.

Typically Offered: FALL

Capacity: 70

## **PHPR 606 DRUG INFORMATION CLERK 0.5 Credit Hours**

Introductory experiential training in drug information.

Prerequisite: P-3 standing and registration as a Pharmacist Intern with the Nebraska Department of Health and Human Services, Regulation and Licensure

Typically Offered: SPRING

Capacity: 70

## **PHPR 608 PATIENT CARE ACTIVITIES 1 Credit Hour**

Introductory experiential patient care opportunities in a variety of practice settings.

Prerequisite: P1, P-2 or P-3 standing, and registration as a Pharmacist Intern with the Nebraska Department of Health and Human Services, Regulation and Licensure.

Instructor: Staff.

Capacity: 70

## **PHPR 610 POINT OF CARE TESTING 1 Credit Hour**

ELECTIVE

Study of the use of Clinical Laboratory Improvement Amendment (CLIA) waived point of care tests in patient care. Successful completion of this course results in a national competency certificate.

Prerequisite: P-3 standing or permission.

Instructor: Ally Dering-Anderson, Pharm.D.

Typically Offered: FALL

Capacity: 50

**PHPR 620 OVER THE COUNTER PRODUCTS 2 Credit Hours**

ELECTIVE

Study of the clinical use of "over-the-counter" products for the treatment of diseases and disorders.

Prerequisite: P-3 standing.

Instructor: Ally Dering-Anderson, Pharm.D.

Typically Offered: FALL

Capacity: 70

**PHPR 621 SUBSTANCE USE DISORDERS AND RECOVERY 2 Credit Hours**

ELECTIVE

Study of the biological and psycho-social aspects of substance abuse and chemical dependency disease, and the methods of drug abuse prevention, education, treatment and support.

Instructor: Linda Sobeski, Pharm D

**PHPR 622 DRUG LIT EVAL/RES METH 3 Credit Hours**

Study of drug literature evaluation and research methods with the emphasis on access and retrieval of drug information, critical evaluation of the information, and application to clinical practice.

Prerequisite: P-3 standing or permission.

Instructor: Gary Yee, Pharm.D.

Capacity: 70

**PHPR 640 ADVANCED TOPICS IN HIV 1 Credit Hour**

ELECTIVE

An in-depth review of selected topics in the HIV-care continuum with an emphasis in interdisciplinary care of areas directly pertinent to the pharmacist's role in HIV care. The elective course is designed to be a primer for students interested in completing the UNMC HIV APPE clerkship, although enrollment into the HIV APPE clerkship is not a requirement of the course.

Prerequisite: PHPR 676 Pharmacotherapy III

Instructor: Kimberly Scarsi, PharmD Anthony Podany, PharmD

Typically Offered: SPRING

**PHPR 665 BIOETHICS AND SOCIAL DETERMINANTS OF HEALTH 1 Credit Hour**

ELECTIVE

Today's healthcare is strongly influenced by social determinants of health. To best understand the role these determinants play, it is important to understand the historical context that influences healthcare today. Further, it is important to understand the bioethical principles that influences the healthcare delivery system.

Instructor: Christopher Shaffer, PharmD, PhD, MS

Typically Offered: SPRING

**PHPR 641 DEVELOPING THE LEADER WITHIN 1 Credit Hour**

ELECTIVE

This elective course will introduce students to essential leadership principles. Students will explore their personal leadership development through the examination of self-awareness, emotional intelligence, and various leadership styles. The course will utilize a series of assignments and activities which will enable students to reflect on how they view and apply their leadership skills in a given situation. By the end of this course, students will have developed a better understanding of their leadership to be more confident in leading in their personal and professional lives.

Instructor: Amy Pick, PharmD Gary Yee, PharmD

Typically Offered: FALL

**PHPR 642 ADVOCACY FOR HEALTH PROFESSIONALS 2 Credit Hours**

ELECTIVE

Two (2) credit hour, seminar-style course focusing on advocating for health professionals and public health. Advocacy includes the activities conducted by a person or by a group that aim to influence the decisions within political, economic, and social institutions. This course will focus on advocacy to local, state and federal government legislative and executive branch bodies, as well as private organizations impacting payment for pharmacist services. Experts in advocacy and health regulation will provide insight into the process and necessity for advocacy in health professions.

Instructor: Ally Dering-Anderson, PharmD

Typically Offered: FALL

**PHPR 643 MANAGED CARE PHARMACY 1 Credit Hour**

ELECTIVE

This managed care pharmacy elective course will provide an overview of managed care pharmacy and an understanding of how managed care pharmacy impacts the healthcare system.

Instructor: Donald Klepser, PhD Carrie McAdam-Marx, PhD, Rph

Typically Offered: FALL

**PHPR 644 EVALUATION & APPLICATION OF REAL-WORLD EVIDENCE 1 Credit Hour**

ELECTIVE

This course will build upon knowledge gained in Drug Literature Evaluation and Research Methods to give students the skills to critically evaluate pharmaco-economic and observational studies and the confidence to apply this real-world evidence (RWE) in practice. Lectures and assignments will cover observational and pharmaco-economic study designs, data sources, and statistical methods to reduce risk of bias and confounding. The course will focus on the appropriate use of RWE in making population-level decisions by health systems and managed care organizations, as well as in clinical settings with a population health management component.

Prerequisite: Drug Literature Evaluation and Research Methods (PHPR 622) or instructor permission

Instructor: Carrie McAdam-Marx PhD, RPh

Typically Offered: SPRING

Capacity: 10

**PHPR 645 COMPLEMENTARY AND ALTERNATIVE MEDICINE (CAM) 2 Credit Hours**

ELECTIVE

Two (2) credit hour course integrating science with clinical application of potential complementary and alternative medicine modalities. This will include herbal products, dietary supplements, and non-pharmacologic therapies. The course will be conducted on-line using weekly modules and virtual discussions.

Instructor: Dean Collier, PharmD; Ally Dering-Anderson, PharmD

Typically Offered: FALL

**PHPR 646 CANNABINOIDS FOR MEDICAL REASONS 2 Credit Hours**

ELECTIVE

An introduction to the uses of cannabinoids for medical purposes. The course will focus on the use of cannabinoids (marijuana and its individual chemical components) for medical reasons. The history of the use of these products, the regulatory situation surrounding these products, and the uses for the products that have evidence to support them.

Instructor: Ally Dering-Anderson, PharmD

Typically Offered: FALL

Capacity: 75

**PHPR 647 LIFESTYLE MANAGEMENT IN PREVENTATIVE CARE 1 Credit Hour**

ELECTIVE

This course highlights the foundations of how to prevent and manage chronic diseases with healthy lifestyle behaviors. Students will be equipped with the tools to educate and inform patients on appropriate lifestyle modifications in an aim to prevent and/or treat various chronic diseases. The topics covered in the course include understanding behavioral modification, healthy eating, physical activity, sleep, stress, tobacco cessation, and more. Students will learn examples of how these strategies are applied within the clinical realm, as disease prevention and health promotion are a central focus of quality patient care. Additionally, medicine tools, construct care plans and follow-up using the pharmacists' patient care process and reflect on their learning experiences throughout the course.

Prerequisite: successful completion of P1 year

Instructor: Drew Prescott, PharmD

Typically Offered: FALL

Capacity: 40

**PHPR 648 ADVANCED TOPICS IN TRANSPLANT PHARMACY 2 Credit Hours**

ELECTIVE

Upon completion of this course, students will be able to: 1. Comprehend how transplant pharmacotherapy impacts solid organ transplant outcomes 2. Evaluate literature regarding pharmacotherapy related to transplantation 3. Effectively educate transplant recipients on transplant-related medications 4. Complete medication history for complex transplant recipients 5. Summarize key challenges relating to pharmacotherapy management of transplant recipients

Prerequisite: successful completion of P1 year

Instructor: Mary E. Leick, Pharm D, BCPS

Typically Offered: SPRING

Capacity: 12

**PHPR 649 ROTATION BOOTCAMP 1 Credit Hour**

ELECTIVE

Review of key topics in pharmacotherapy to prepare for advanced pharmacy practice experiences.

Prerequisite: P-3 standing.

Instructor: Logan Franck, PharmD

**PHPR 650 LEGAL AND ETHICAL PRINCIPLES II 2 Credit Hours**

Study of the statutes, regulations, and ethical principles governing the practice of pharmacy and the process of ethical decision-making. P-3 standing or permission.

Instructor: Allison Dering-Anderson, Pharm. D.

Typically Offered: FALL

Capacity: 70

**PHPR 652 FINANCING YOUR FUTURE 1 Credit Hour**

ELECTIVE

This financial course is an introduction to the financial outlook of student pharmacists once they graduate. Students will gain knowledge to navigate the financial obligations as a pharmacist, as well as information to progress to financial freedom.

Instructor: Logan Franck, PharmD, BCACP Paul Dobesh, PharmD, FCCP, BCPS, BCCP

Typically Offered: FALL

**PHPR 654 APPLIED POSITIVE PSYCHOLOGY FOR HEALTH PROFESSIONALS 1 Credit Hour**

ELECTIVE

This course is a practicum in positive psychology. Positive psychology "optimism" the scientific study of what makes life most worth living (Wiki). Students will engage in and reflect/ report on methods intended to enhance their Gallup Strength Finder's strengths. The goal is to help students better understand their strengths and know how to use their strengths to navigate challenges in their professional life. Research has shown that purposeful attention to one's strengths helps optimize work-life balance and improves contentment and resilience.

Instructor: Dean Collier, PharmD

Typically Offered: SPRING

**PHPR 657 DIABETES MELLITUS MGMT 1 Credit Hour**

ELECTIVE

Study of education, pharmacotherapy, and monitoring of patients with diabetes.

Prerequisite: P-3 standing.

Instructor: Kristen Cook, PharmD Jessica Downes, PharmD

Capacity: 65

**PHPR 659 PHARMACY BASED IMMUNIZATION DELIVERY 1 Credit Hour**

Study of the techniques and procedures used in vaccine administration by pharmacists. Prereqs: P-1 standing.

Instructor: Allison Dering-Anderson, PharmD

Typically Offered: SPRING

Capacity: 70

**PHPR 662 PHARM PRACTICE MGMT 3 Credit Hours**

Principles of management and their application in professional practice and the operation of a pharmacy.

Prerequisite: PHPR 560.

Instructor: Donald Klepser, Ph.D.

Typically Offered: FALL

Capacity: 70

**PHPR 663 PHARMACY PRACTICE RSCH 1-2 Credit Hours**

ELECTIVE

A pharmacy practice research primer for pharmacy students that will take them from idea generation and development of a research question through the IRB process to the completion of a research protocol. Students are expected to continue on with a research clerkship in the P-4 year to complete their research project.

Prerequisite: Permission.

Instructor: Donald Klepser, PhD

Capacity: 30

**PHPR 672 PHARMACOTHERAPY I 5.5 Credit Hours**

Integration of biomedical, clinical and pharmaceutical sciences in the formulation, application, and monitoring of therapeutic regimens for the treatment of diseases and disorders.

Prerequisite: P-2 standing for Pharmacotherapy I.

Instructor: Gary Cochran, Pharm.D./Staff

Capacity: 70

**PHPR 667 CRITICAL CARE THERAPEUTICS 2 Credit Hours**

ELECTIVE

Critical Care Therapeutics is designed to give the third professional year pharmacy student a comprehensive look at providing quality patient care to the critically ill. Previous coursework and knowledge base will be built upon in this course to develop critical thinking skills as they apply to providing care to patients in the intensive care setting.

Prerequisite: P3 year standing

Instructor: Greg Peitz, PharmD, FCCM, BCCP

Typically Offered: SPRING

**PHPR 674 PHARMACOTHERAPY II 7 Credit Hours**

Integration of biomedical, clinical and pharmaceutical sciences in the formulation, application, and monitoring of therapeutic regimens for the treatment of diseases and disorders. Continuation of PHPR 672.

Prerequisite: P-2 standing and successful completion of Pharmacotherapy I.

Instructor: Paul Dobesh, Pharm.D./Staff.

Capacity: 70

**PHPR 676 PHARMACOTHERAPY III 8.5 Credit Hours**

Integration of biomedical, clinical and pharmaceutical sciences in the formulation, application, and monitoring of therapeutic regimens for the treatment of diseases and disorders.

Prerequisite: P-3 standing and successful completion of Pharmacotherapy I and II. Continuation of PHPR 674.

**PHPR 678 PHARMACOTHERAPY IV 8.5 Credit Hours**

Integration of biomedical, clinical and pharmaceutical sciences in the formulation, application, and monitoring of therapeutic regimens for the treatment of diseases and disorders. Continuation of PHPR 676.

Prerequisite: P-3 standing and successful completion of Pharmacotherapy I, II, and III.

Instructor: Paul Dobesh, PharmD and staff

**PHPR 685 PHARMACOGENOMICS 2 Credit Hours**

ELECTIVE

Study the impact of polymorphisms within DNA which can alter the pharmacologic response and toxicity as well as the implementation of this pharmacogenetic information into clinical practice.

Prerequisite: P-3 Standing or permission.

Instructor: Christopher Shaffer, PharmD, PhD

Typically Offered: FALL

Capacity: 30

**PHPR 687 PEDIATRIC PHARMACOTHERAPY 2 Credit Hours**

ELECTIVE

The purpose of this 2 semester credit hour course is to provide pharmacy students with an expanded knowledge of pediatric pharmacotherapy.

There will be emphasis on the pathophysiology and therapeutics of the most common disease states encountered in pediatric patients that are not already included in the required Pharmacotherapy course sequence.

The goal of the course is to give students the necessary knowledge and skills to provide exceptional care to the pediatric population.

Instructor: Christopher Shaffer, PharmD, PhD

Typically Offered: SPRING

**PHPR 689 TOPICS IN GERIATRICS 1 Credit Hour**

ELECTIVE

This course will examine the role of drug therapy and social issues in elderly adults. The course will discuss the potential differences for elderly adults with respect to goals of drug therapy, healthcare models, and cultural considerations. The course will also introduce basic legal, ethical, and social aspects of aging important for caring for the geriatric population.

Prerequisite: Completion of P1 year.

Instructor: Kristen Cook/ Linda Sobeski, Pharm.D.

Typically Offered: SPRING

Capacity: 60

**PHPR 690 CAPSTONE I 1 Credit Hour**

Upon completion of this course, students will be prepared to successfully pass all Areas of the NAPLEX Advantage exam and prepare them for successful completion of Advanced Practice Pharmacy Experiences (APPEs).

Prerequisite: P-3 standing and successful completion of Pharmacotherapy III and IV or a plan for remediation

Instructor: Paul Dobesh, PharmD and Greg Zumach, PharmD

Typically Offered: SPRING

**PHPR 697 INDEPENDENT STUDY 1-5 Credit Hours**

ELECTIVE

Independent study in a clinical science area involving either a literature or a clinically-oriented research project.

Prerequisite: Permission.

Instructor: Staff.

Capacity: 40

**PHPR 699 PHARMACY PRACTICE RESEARCH 1-3 Credit Hours**

ELECTIVE

Independent Study.

Prerequisite: Permission.

Instructor: Staff.

Capacity: 30

**PHPR 799A ADVANCED PHARMACY PRACTICE EXPERIENCE (APPE) 4****Credit Hours**

The final year of the pharmacy program consists of Advanced Pharmacy Practice Experiences (APPEs) following the successful completion of the P3 year. All fourth year pharmacy students must complete ten four-week APPEs as outlined by the course of study. The College requires completion of six APPEs including one community, one hospital, two acute care, and two ambulatory care APPEs. Four elective APPEs must be completed. The list of all APPEs offerings are maintained by the Office of Experiential Program. Advanced Pharmacy Practice Experience Rotations: Community, Hospital/Health System Institutional Pharmacy, Hospital/Health System Geriatric, Acute Pediatrics, Acute Internal Medicine - Family Medicine, Acute Internal Medicine - General, Acute Internal Medicine Psychiatric Pharmacy, Acute Internal Medicine - Neurology, Acute Institutional Care, Acute Cardiology, Acute Critical Care, Acute Infectious Diseases, Acute Adult Oncology, Acute Nephrology, Acute Solid Organ Transplant, Acute Pediatrics, Acute Cardiology Heart Failure, Acute Emergency Services, Acute Inpatient Antithrombotic Therapy Service, Acute Adult Intensive Care, Acute Trauma SURG ICU, Acute Antibiotic Stewardship, Acute Geriatrics, Acute Burn Wound Care, Ambulatory Adult Medicine, Ambulatory Family Medicine, Ambulatory Geriatric Medicine, Ambulatory Nebraska Medicine Oncology, Drug Information, Managed Care, Organizational Management, Nuclear Pharmacy, Academic Experience (Ambulatory Care), Long Term Care Pharmacy, Academic, Public Health - Rural Interprofessional Health Care, Veterinary Pharmacy, Pharmacy Management, Pharmacy Practice Research, Pharmacy Regulation, Specialty Pharmacy, International Pharmacy, Special Circumstance.

Prerequisite: P-4 standing and registration as an intern with the Nebraska Department of Health and Human Services and, if applicable, registration as an intern (or other designation used), if required, with Board of Pharmacy of the practice site's state.

Typically Offered: FALL/SPR