PHARMACY (PHARMACY)

PHARMACY 125 — EXPLORING PHARMACY I
2 credits.
Provides opportunities to integrate and apply introductory concepts and content related to Pharmaceutical Sciences, Social Administrative Pharmacy, and Pharmacy Practice. Students also develop academic and interpersonal skills helpful for success in current and future courses. Enroll Info: None
Requisites: None
Repeatable for Credit: No
Last Taught: Spring 2021

PHARMACY 126 — EXPLORING PHARMACY II
1 credit.
Expands upon the learning foundations provided in PHARMACY 125. Additional opportunities to develop pre-professional plans, explore unique pharmacy career opportunities and learn about pharmacy student curricular and professional development experiences. Prepare students to successfully participate in the pharmacy admissions process. Enroll Info: None
Requisites: PHARMACY 125
Repeatable for Credit: No
Last Taught: Spring 2021

PHARMACY 423 — PHARMACY INTEGRATED LEARNING LABORATORY
1 credit.
Provides an interdivisional foundation for pharmacy students to understand many aspects of pharmacy through a wide variety of activities. Delivers a broad understanding of the pharmacist’s public health and patient advocacy role with opportunities to practice basic calculations related to drug formulations in the context of safety, drug stability, and patient care. Fosters development of communication skills with peers and patients and be introduced to patient counseling principles. Includes active participation in a longitudinal group experience with an assigned senior in the community to apply course content. Enroll Info: None
Requisites: Declared in the Doctor of Pharmacy Program with first year standing only
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2020

PHARMACY 490 — SELECTED TOPICS IN PHARMACY
1-2 credits.
Various topics related to the Pharmacy profession. Enroll Info: None
Requisites: Declared in Doctor of Pharmacy program
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2021

PHARMACY 563 — DRUG HISTORY: DANGEROUS DRUGS AND MAGIC BULLETS
2 credits.
A history of medicinal substances and dangerous drugs in wider context, with a focus on gender, race, class, business, and other analytical categories. "Medicines" and "drugs" change over time – and concepts of risk, danger, legality, and even scientific evidence are elastic. Histories of laws, regulations, and key historical actors, as well as specific drug biographies, will be provided. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

PHARMACY 564 — PSYCHEDELIC HISTORY: SACRED PLANTS, SCIENCE & PSYCHOTHERAPY
3 credits.
A history of psychedelics in the U.S. and more globally. Read texts that were formative in the development of the history of psychopharmacology, pharmaceuticals, and the "war on drugs." Examine readings that represent different themes, subfields, or areas of research interest within the history of psychedelics (medicine science). Beyond biomedicine, types of analysis include: consumerism, class, ethnicity, gender, and military history. Histories of laws, regulations, and key historical actors, as well as specific drug biographies, will be provided. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No

PHARMACY/ISY E 608 — SAFETY AND QUALITY IN THE MEDICATION USE SYSTEM
3 credits.
Addresses the problems of medication errors and quality in health care, problem resolutions, methods of assessment, and intervention implementation and quality management. Enroll Info: None
Requisites: Declared in Doctor of Pharmacy program with third year standing
Repeatable for Credit: No
Last Taught: Fall 2020

PHARMACY 630 — RURAL PHARMACY PRACTICE
2 credits.
Explore how public health intersects with healthcare delivery in rural settings through direct engagement with rural communities, practitioners, and themes in rural practice. Apply therapeutic knowledge to fulfill unmet community needs, and thereby enhance delivery of healthcare in rural communities. Create a pharmacy-driven service with the goal of enhancing healthcare delivery in a rural area based on a community assessment, exploration of contemporary rural health care trends, and discussion with current rural health practitioners. Enroll Info: None
Requisites: Declared in the Doctor of Pharmacy Program with third year standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2020
PHARMACY 631 — PHARMACIST SERVICES MANAGEMENT
2 credits.

Provides a foundation for students/practitioners to develop, implement, and manage pharmacist services in a variety of practice environments. Students will work to develop, implement, or improve new pharmacy service products in practice environments using a marketing approach. Enroll Info: None
Requisites: Declared in Doctor of Pharmacy program with third year standing
Repeatable for Credit: No
Last Taught: Spring 2014

PHARMACY 635 — DRUG INTERACTIONS
1-2 credits.

Develops the student’s ability to use physiological, pharmacological, physical-chemical, pharmacokinetic, and pharmacodynamic concepts to analyze and assess drug-drug interactions. Enroll Info: None
Requisites: Declared in Doctor of Pharmacy program with third year standing
Repeatable for Credit: No
Last Taught: Fall 2019

PHARMACY 640 — APPROPRIATE USE OF ABUSED DRUGS
2 credits.

Discusses the biological and pharmacological basis of dependence of substances of abuse. Teaches the skills required for best practices in prescribing agents of abuse. Drugs of abuse covered include opioids use for acute and chronic pain, in addition to other abused substances such as cannabinoids, psychedelics, amphetamines and related agents. Students will learn appropriate methods of therapeutic tapering and treatment of withdrawal, as well as the treatment of known and unknown agent overdose. Teaches skills in interpreting and responding to findings of urine drug tests and the prescription drug monitoring database. Enroll Info: None
Requisites: Declared in the Pharmacology and Toxicology undergraduate program or in the Doctor of Pharmacy program with second year standing
Repeatable for Credit: No
Last Taught: Spring 2021

PHARMACY 645 — PHARMACEUTICAL BIOTECHNOLOGY AND PHARMACOGENOMICS
2-3 credits.

Facilitates the understanding and application of the principles of pharmaceutical biotechnology and pharmacogenomics. The third, optional, elective credit, open only to Pharm.D. students, will consist of clinical case studies in biotechnology and pharmacogenomics, to apply theory to clinical pharmacy practice. Enroll Info: None
Requisites: PHM SCI 432 and Declared in the Doctor of Pharmacy program with third year standing
Repeatable for Credit: No
Last Taught: Fall 2020

PHARMACY/NURSING/PHY ASST/PHY THER/PUBLHLTH 758 — INTERPROFESSIONAL PUBLIC HEALTH LEADERSHIP
1 credit.

Build skills in collaboration, problem solving, and reflection to approach complex community-based public health problems contribute to becoming a public leader. Explore the six levels of public health leadership through the practices of current and past public health leaders, case studies, and personal experience. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2019

PHARMACY 771 — CNS DRUG DESIGNS, ACTIONS, AND APPLICATIONS II
2 credits.

Gain additional understanding of how chemical features can influence the biological activity of a molecule on molecular targets within the central nervous system, how alteration of signaling through these targets occurs and leads to physiologically relevant changes, and how major classes of pharmaceuticals acting on the central nervous system are applied in healthcare settings to improve patient outcomes. Integration between concepts arising at the chemical, molecular, cellular, systems, organism, and societal levels will be explored. Enroll Info: None
Requisites: PHARMACY 770
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No

PHARMACY 800 — RESEARCH ETHICS: SCIENTIFIC INTEGRITY AND THE RESPONSIBLE CONDUCT OF RESEARCH
2 credits.

Familiarizes graduate students with basic ethical issues associated with biomedical science research, taught via a case study approach. Content structured to meet NIH and NSF requirements for Responsible Conduct of Research (RCR) training. Students declared in the Pharmacology and Toxicology undergraduate program may enroll via consent of instructor. Enroll Info: None
Requisites: Declared in the Pharmaceutical Sciences PhD, Social and Administrative Sciences in Pharmacy PhD, or in the Pharmacy Master’s program
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2020