Curriculum

P1 Year

P1 Year, Block 1 Courses	Credit Hours
PHRD 510 – Personal and Professional Development	0
PHRD 511 – Biomedical Foundations	4
PHRD 512 – US Health Care	1.5
PHRD 513 – Pharmacy Practice Skills I	1
PHRD 515 – Pharmaceutics, Pharmacokinetics & Calculations	1
PHRD 516 – Principles of Drug Information I	1
Total	**8.5**

P1 Year, Block 2 Courses	Credit Hours
PHRD 510 – Personal and Professional Development	0
PHRD 515 – Pharmaceutics, Pharmacokinetics & Calculations I	1
PHRD 521 – Pharmaceutical Sciences Foundations	3.5
PHRD 522 – Nonprescription Therapeutics	3
PHRD 523 – Pharmacy Practice Skills II	1
PHRD 525 – Pharmaceutics, Pharmacokinetics, & Calculations II	1.5
PHRD 526 – Introduction to Evidence Based Medicine	1
Total	**11**

P1 Year, Block 3 Courses	Credit Hours
PHRD 530 – Personal and Professional Development II	0
PHRD 531 – Integrated Pharmacotherapy I Infection & Immunity	4
PHRD 540 – Medical Literature Evaluation	1
PHRD 533 – Pharmacy Practice Skills III	1
PHRD 535 – Pharmaceutics, Pharmacokinetics, & Calculations III	2.5
Total	**8.5**

P1 Year, Block 4 Courses	Credit Hours
PHRD 530 – Personal and Professional Development II	0
PHRD 541 – Integrated Pharmacotherapy II Endocrine	4
PHRD 540 – Medical Literature Evaluation	1
PHRD 543 Pharmacy Practice Skills IV	1
PHRD 535 – Pharmaceutics, Pharmacokinetics, & Calculations III	2.5
Total	**8.5**

P2 Year

P2 Summer 1 Courses	Credit Hours
PHRD 705 – Community: IPPE	1
Total	**1**

P2 Year, Block 5 Courses	Credit Hours
PHRD 610 – Personal and Professional Development III	0
PHRD 611 – Integrated Pharmacotherapy III Cardiovascular I	5.5
PHRD 612 – Health Outcomes and Informatics I	1.5
PHRD 613 – Pharmacy Practice Skills V	1
PHRD 6XX Elective	1
Total	**9**

P2 Year, Block 6 Courses	Credit Hours
PHRD 610 – Personal and Professional Development III	0
PHRD 621 – Integrated Pharmacotherapy IV Cardiovascular II/Renal	5
PHRD 622 – Health Outcomes and Informatics II	1.5
PHRD 623 – Pharmacy Practice Skills VI	1
PHRD 6XX Elective	1
Total	**8.5**

P2 Year, Block 7 Courses	Credit Hours
PHRD 630 – Personal and Professional Development IV	0
PHRD 631 – Integrated Pharmacotherapy V Gastrointestinal	4
PHRD 633 – Pharmacy Practice Skills VII	1
PHRD 635 – Law & Ethics I	2
PHRD 636 – Pharmacogenomics	1.5
PHRD 6XX Elective	1
Total	**9.5**

P2 Year, Block 8 Courses	Credit Hours
PHRD 630 – Personal and Professional Development IV	0
PHRD 641 – Integrated Pharmacotherapy VI Neurology/Psychiatry	4.5
PHRD 643 – Pharmacy Practice Skills VIII	1.5
PHRD 645 – Law & Ethics II P	2
PHRD 6XX Elective	1
Total	**9**

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P3 Year

P3 Summer 1 Courses	Credit Hours
PHRD 707 – Hospital: IPPE	1
Total	**1**

P3 Year, Block 9 Courses	Credit Hours
PHRD 710 – Personal and Professional Development V	0
PHRD 711 – Integrated Pharmacotherapy VII Musculoskeletal	5
PHRD 712 – Research Topics in Pharmacy I	1
PHRD 713 – Pharmacy Practice Skills IX	1
PHRD 715 Operations I	2
PHRD 6XX Elective	1
Total	**10**

P3 Year, Block 10 Courses	Credit Hours
PHRD 710 – Personal and Professional Development V	0
PHRD 721 – Integrated Pharmacotherapy VIII Pulmonary, Otic, Ophthalmic	5
PHRD 722 – Research Topics in Pharmacy II	1
PHRD 723 – Pharmacy Practice Skills X	1
PHRD 725 Operations II	2
PHRD 6XX Elective	1
Total	**10**

P3 Year, Block 11 Courses	Credit Hours
PHRD 730 – Personal and Professional Development VI	0
PHRD 732 – Applied Drug Management I	1.5
PHRD 733 – Pharmacy Practice Skills XI: Sterile Products	2
PHRD 736 – Integrated Pharmacotherapy X Hematology/Oncology	4.5
PHRD 6XX Elective	1
Total	**9**

P3 Year, Block 12 Courses	Credit Hours
PHRD 730 – Personal and Professional Development VI	0
PHRD 741 – Integrated Pharmacotherapy XI Special Populations	4
PHRD 742 – Applied Drug Management II	1
PHRD 743 – Pharmacy Practice Skills XII	1
PHRD 745 Integrated Pharmacotherapy XII Clinical Updates	1.5
PHRD 6XX Elective	1
Total	**8.5**

P4 Year

Required Personal and Professional Development (PPD) Courses

PHRD 910 PPD VII

PHRD 930 PPD VIII

Required Rotations Courses Credit Hours

PHRD 8XX Advanced Pharmacy Practice Experiences (nine one month rotations)	36
Total	**36**

Required Rotations Courses

PHRD 804 – Advanced Community Pharmacy

PHRD 805 – Ambulatory Care I PHRD 806 - Geriatric Medicine I

PHRD 807 – Internal Medicine I

PHRD 808 – Internal Medicine II

PHRD 810 – Advanced Hospital Pharmacy

Course Descriptions

PHRD 510 – Personal/Professional Development I
Credit: 0.0 hours
This course is designed to provide the student pharmacist with the tools necessary to excel as a professional throughout both the pharmacy curriculum and their professional career. This course is taught longitudinally throughout all three years of the didactic curriculum, and its aim is to impart knowledge, skills, abilities, behaviors, and attitudes necessary to demonstrate the key elements of personal and professional development: self-awareness, leadership, innovation and entrepreneurship, and professionalism.

PHRD 511 – Biomedical Foundations
Credit: 4.0 hours
This course is designed to give the student pharmacist a strong foundation in biochemical principles and metabolic pathways at the molecular and cellular levels; cellular and tissue physiology and basic anatomical structures; and aspects of medically-related microbiology.

PHRD 512 – US Health Care
Credit: 1.5 hours
This course will focus on introducing the student pharmacist to the US Healthcare System and its components, the profession of pharmacy and the expanding collaborative roles of pharmacists in the healthcare system, and contrast the US Healthcare System to systems from different countries.

PHRD 513 – Pharmacy Practice Skills I
Credit: 1.0 hour
This course provides student pharmacists the opportunity to learn skills used by pharmacists to help prepare them for the experiential component of the Doctor of Pharmacy curriculum.

The student pharmacist will be engaged in interactive labs and didactic sessions that provide education and experience in writing, prescription verification, and/or communicating with patients and health care professionals. Student pharmacists will utilize drug literature skills to answer questions and incorporate evidence from medical literature and guidelines into patient care. Student pharmacists will gather patient information from a medical record and/or a mock patient to devise and implement pharmacotherapeutic plans for the patient.

PHRD 515 – Pharmaceutics, Pharmacokinetics & Calculations I (PPC I)
Credit: 2.0 hours
This course exposes the student pharmacist to fundamental pharmaceutical calculations encountered in pharmacy practice and serves as a foundation for the future concepts in pharmaceutics and pharmacokinetics. A lab portion of the course will serve to reinforce concepts taught in lecture through hands-on activities and additional practice.

PHRD 516 – Principles of Drug Information
Credit: 1.0 hour
This course is designed to introduce the student pharmacist to sources of drug information and how they are used in pharmacy practice and in the pharmaceutical industry. Student pharmacists will gain practical experience utilizing drug information resources to answer basic and moderately complex biomedical questions. This experience provides student pharmacists with a foundation for developing skill sets related to drug information, literature evaluation, and communication.

PHRD 521 – Pharmaceutical Sciences Foundations
Credit: 3.5 hours
This course is designed to incorporate the principles of pharmaceutics, pharmacokinetics, medicinal chemistry, and pharmacology to provide the student pharmacist with a foundation in the Pharmaceutical Sciences that is critical to the understanding of Pharmacotherapy. This course will emphasize the physicochemical properties of drugs and their effects on drug handling and biological activity.

PHRD 522 – Nonprescription Therapeutics
Credit: 3.0 hours
This course is a study of various nonprescription (OTC) products commonly found in community pharmacy practice. Emphasis is placed on the problem-solving process involved in patient assessment, triaging of serious healthcare problems and referral to other healthcare settings as appropriate, therapeutic intervention, product recommendation(s), and patient education regarding health promotion and disease management with nonprescription medications. Student pharmacists will have to tailor product selection to special populations, including children, geriatrics, patients with certain medical conditions, etc. when appropriate. Student pharmacists will also learn and apply skills in patient interviewing techniques and medication counseling through the use of mock patients and simulated patients.

PHRD 523 – Pharmacy Practice Skills II
Credit: 1.0 hour
This course provides student pharmacists the opportunity to learn skills used by pharmacists to help prepare them for the experiential component of the Doctor of Pharmacy curriculum.

The student pharmacist will be engaged in interactive labs and didactic sessions that provide education and experience in writing, prescription verification, and/or communicating with patients and health care professionals. Student pharmacists will utilize drug literature skills to answer questions and incorporate evidence from medical literature and guidelines into patient care. Student pharmacists will gather patient information from a medical record and/or a mock patient to devise and implement pharmacotherapeutic plans for the patient.

PHRD 525 – Pharmaceutics, Pharmacokinetics & Calculations II (PPC II)
Credit: 1.5 hours
This course covers the basics of pharmacokinetic and biopharmaceutic concepts to enable student pharmacists monitor drug concentrations effectively. A laboratory portion of the course will serve to reinforce concepts taught in lecture through hands-on activities and additional practice.

PHRD 526 – Introduction to Evidence-Based Medicine
Credit 1.0 hour
This course is designed to further develop proficiency in literature evaluation and the application of biomedical knowledge to individual patients. This experience will provide a foundation for the utilization of literature to support evidence-based decision making and refine student pharmacists' ability to communicate complex biomedical information.

PHRD 530 – Personal/Professional Development II
Credit: 0.0 hours
This course is designed to provide the student pharmacist with the tools necessary to excel as a professional throughout both the pharmacy curriculum and their professional career. This course is taught longitudinally throughout all three years of the didactic curriculum, and its aim is to impart knowledge, skills, abilities, behaviors, and attitudes necessary to demonstrate the key elements of personal and professional development: self-awareness, leadership, innovation and entrepreneurship, and professionalism.

PHRD 531 – Integrated Pharmacotherapy I Infection & Immunity
Credit 4.0 hours
This course is designed to integrate biomedical sciences, pharmaceutical sciences, and clinical therapeutics with an emphasis on pharmacotherapeutic management of infectious diseases and the immune system. The student pharmacist will learn about normal functioning of the human immune system, immune system disorders, and principles of infectious disease, as well as medications and their effects on the body. The student pharmacist will apply this knowledge to de-