(2008). Associate Dean for Academic Administration and Professor of1n. (essor )-0.6hTc6Dl.of1n. (essor )-0

(2008). Professor of Pharmacy Practice. B.S., Kearney State College; Pharm.D., University of Nebraska Medical Center.

(2007). Assistant Dean for Experiential Education and Professor of Pharmacy Practice. B.S. and Pharm.D., University of Tennessee Health Science Center.

(2009). Professor and Chair of Pharmacy Practice. B.S., Middle Tennessee State University; Pharm.D., University of Tennessee Health Science Center.

(2008). Professor and Chair of Pharmaceutical Sciences. B.S., Union University; Ph.D., University of Georgia.

(2011). Administrative Assistant to the Dean.

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(2004). Coordinator for Continuing and Experiential Education, College of Pharmacy. B.S., Union University.

(2021). Director for Pharmacy Admissions and Recruitment, College of Pharmacy. B.G.S. and M.P.A, Indiana University.

A list of faculty who teach in graduate programs is available online at *www.uu.edu/academics/faculty/*.

Financial aid information for graduate students is available on our website at *www.uu.edu/financialaid*. Generally, graduate students may be eligible for Federal Direct student loans or private alternative student loans, depending on the program of study and the eligibility of the borrower. Union University is also approved by the Department for Veterans Affairs to offer educational benefits to veterans, reservists, and dependents of veterans who qualify for Veterans Benefits. Any person who qualifies for VA Benefits should check with the Office of Student

This course provides an introduction to the origin and definition of medical terms used in various healthcare settings. In addition, it provides an introduction into body structures, diseases, and treatments arranged in an organ system manner.

This elective course provides students an opportunity learn about another culture and participate in a short-term health care mission trip. Students will learn to coordinate drug distribution, make pharmacotherapy recommendations within a limited formulary, and provide patient education in a setting with many communication barriers. Students, guided by faculty, will learn to provide patient care in this unique environment.

Elective course to provide students advanced exposure to oncology building on topics in PHRM 769 . Students are introduced to different malignant disease states and their common chemotherapeutics regimens, the principles of concern prevent and screening, pharmaceutical care to manage short and long-term side effects from cancer and treatments, and appropriate management and handling of cytotoxic medications.

Elective course designed to strengthen student's knowledge of common critical care topics with emphasis on applications of primary research in various disease states. The course will utilize group discussion of literature including reviews, guidelines, and primary research articles on selected topics in the area of critical care therapeutics. Students will give presentations to extend their knowledge beyond that provided in previous coursework.

The Interprofessional Practice & Education (IPE) course is one of three designed to focus on the development of interprofessional skills required for collaboration with other healthcare providers in contemporary pharmacy practice. The primary emphasis will be on roles and responsibilities of healthcare team members and collaboration with other healthcare providers to provide interprofessional patient care.

An introduction to the chemical and physical properties of medicinal agents. It will provide a foundational understanding of key concepts in the pharmaceutical sciences in preparation for coursework in medicinal chemistry, pharmacology and pharmaceutics.

Elective course building on PHRM 707, an in-depth overview of pain management, including pain classifications, assessment, pharmacological and non-pharmacological treatment options of a variety of nociceptive and neuropathic pain syndromes.

Designed to acquaint students with indications, actions, possible adverse events and contraindications of non-prescription drugs with an emphasis on communication with patients and providers. Students will be evaluated on their ability to obtain medical histories and counseling skills.

An elective course designed to help students develop an understanding of the principles of toxicology through lectures, class discussion, and developing and giving oral presentations about current toxicological issues within the field of pharmacy.

Building on foundational principles, students will use analysis software to perform nonlinear regression of pharmacokinetic data. They will evaluate literature and become familiar with FDA guidance documents for clinical pharmacology and biopharmaceutics topics. Discussion will include advanced topics as optimal sampling design, pharmacokinetic clinical trial design, enterophepatic recirculation models and chronopharmacokinetics.

A survey of skills and resources needed to navigate contemporary pharmacy practice. Students will interpret legislative and regulatory applications as they work through case-based scenarios. Students will explore safety concerns within the pharmacy workplace and relate solutions to address them. Students will study management and business principles to effectively achieve shared goals. Students will examine the implications of precision medicine on the practice of pharmacy.

PHRM 723 covers the fundamental concepts of drug information practice, clinical trial design and analysis, and pharmacy informatics. It is designed to introduce key concepts and establish a basic knowledge and skillset. Future courses (e.g. PHRM 772) will develop mastery of the interpretation of clinical data and application of the evidence in the delivery of individualized pharmaceutical care. This course also introduces a variety of topics related to the medication use system.

An elective course designed to provide students further exposure to diabetes topics including but not limited to: guidelines, drug selection algorithms, nutrition and insulin dosing, adjustment, and titration. Topics presented by lecture, discussion, and simulation.

The first of a two-course sequence that integrates concepts in physiology and pathophysiology to understand drug mechanisms and their impact on disease. The course uses an organ systems approach to cover the various drug classes.

Introduction course for first year students discussing drugs for cholinergic, adrenergic, cardiovascular, pulmonary and endocrine system. Drug class, mechanism of action, drug interaction and toxicities, pharmacodynamics and pharmacokinetics are discussed.

This course serves as an introductory or refresher session and a networking opportunity to provide information, motivation and guidance for student pharmacists who currently participate in or wish to become involved in the planning, implementation, or strengthening of state-level and campus-level programs, to help and assist pharmacists or student pharmacists whose competence to perform their responsibilities has become impaired due to alcoholism or other drug dependencies by assisting them in finding treatment, ongoing recovery and reentry into the practice of pharmacy or their pharmacy education; and to better prepare attendees to provide appropriate assistance and support to clients affected by alcoholism and other drug dependencies. Students may only be enrolled in this course after acceptance into the Institute on Alcoholism and Drug Dependencies by the American Pharmacists Association and are only eligible to receive elective credit upon completion of the institute requirements and course requirements. Institute completion requirements include one week of on-site training in Salt Lake City at the University of Utah.

An introduction to the chemical and physical properties of medicinal agents through discussion of the relationships of structural properties of drugs to their pharmacological properties, absorption, distribution, metabolism, chemical activity, and mechanism of action.

The APhA certification course highlights the role of vaccines in the prevention of infectious diseases, the role of the pharmacist in promoting and providing vaccines to patients, and steps to implementing an immunization program into various pharmacy practice settings. Injection technique will be taught, practiced, and assessed.

This P-1 course is one of five designed to focus on the development of professional skills required for contemporary pharmacy practice. The primary emphasis is on drug distribution in the community setting, communication skills and interprofessional patient care. During this 2-week (80 contact hours) rotation, students are exposed to the role and responsibilities of the pharmacist in community practice and the importance of the pharmacist in patient care.

This P-1 course is one of five designed to focus on the development of professional skills required for contemporary pharmacy practice. The primary emphasis is on drug distribution in the institutional setting, communication skills and interprofessional patient care. During this 2-week (80 contact hours) rotation, students are exposed to the role and responsibilities of the pharmacist in institutional practice and the importance of the pharmacist in patient care.

In this introductory experience, students will work with faculty to develop skills in computer-aided design of novel drug structures for specific therapeutic targets and in the laboratory to synthesize various structures for pharmacological testing and evaluation.

An introduction to the scientific principles and regulatory issues of pharmaceutical dosage form and delivery system design, compounding, and use. An emphasis will be placed on solid dosage forms including powders, tablets, and capsules, as well as the biopharmaceutical principles of bioavailability and bioequivalence. This course includes laboratory experiences in compounding pharmaceutical dosage forms.

A continuation of 733 to further the understanding of the scientific principles and regulatory issues of pharmaceutical dosage form and delivery system design, with an emphasis on liquid and semi-solid dosage forms. This course will emphasize oral, topical, transdermal, and parenteral routes of administration. The student will develop competency in compounding, proper aseptic technique, and preparation of sterile products with hands-on training in the laboratory.

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Basic laboratory tests used to diagnose disease and monitor disease progression and drug therapy. Students will learn to screen and evaluate patients using relevant clinical data.

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The Pharmacotherapy courses focus on management of diseases and conditions. Students apply knowledge of pathology, pathophysiology, diagnosis, clinical presentation, classification, goals of therapy, pharmacotherapy, non-pharmacological therapy, considerations for special populations, and patient counseling.

An overview of state and federal pharmacy practice laws that govern technician, pharmacy intern, and pharmacist practice and control the manufacturing, distribution, prescribing, and dispensing of drug products.

This P-2 course is one of five designed to focus on the development of professional skills required for contemporary

This lab course is designed for PY2 students to apply some of the basic principles and concepts they learned from physical pharmacy (Pharmaceutics 1) as a means of performing pharmaceutical compounding. This course will emphasize an understanding of the formulation and physiological factors involved in the delivery and absorption of drugs through a variety of routes of administration and dosage forms. The formulation, stability, and packaging of various dosage forms will be studied. Students will learn and experience preparing some traditional solid dosage forms like tablets, capsules, powders, lozenges, and suppositories. It will also emphasize the preparation of some liquid dosage forms including solutions and suspensions. Semi-solids such as creams, pastes, ointments and emulsions will also be emphasized and prepared in the lab. Additionally the student will also utilize and apply their pharmaceutical calculation skills, which they began acquiring or developing from the previous year. For example in a compounding pharmacy, the pharmacists must know and frequently perform the necessary mathematical calculations to an80l.9 (ts muTc -06 (parnis)5.8 (o)g8n / (pha)-)TET.016t9 >>Bl2

This course is designed provide an update and systematic review of key disease states and related drugs. Students will be required to demonstrate competency in their knowledge of the Top 300 drugs and application of these drugs to the clinical management of commonly encountered diseases.

This course is designed provide an update and review of key foundational concepts in the pharmaceutical sciences. This includes, but is not limited to, pharmaceutical calculations, pharmacokinetics, pharmaceutics, medicinal chemistry, pharmacology, and pharmacy administration.

This course is designed strengthen the student's knowledge of general internal medicine topics with emphasis on application of primary research and current guidelines in various disease states. The course will utilize formal lectures as well as group discussion of primary literature including reviews, guidelines and primary research articles on selected topics in the area of internal medicine therapeutics. Students will also give presentations on other related topics that will extend their knowledge beyond that provided in previous coursework.

This course will provide pharmacy students with a didactic learning experience that will develop a solid foundation in pediatric pharmacy. During this elective, students will develop and refine their clinical skills that will enhance future rotations, especially in the field of pediatrics. The student will become familiar with common pediatric disease states and therapies.

This is an elective course designed to help students understand the prevention, detection, and management of drug induced diseases in an organ system specific manner. The goal of this course is to prepare students to recognize some of the most common and serious drug induced conditions and have awareness of the possible causes. The course will provide the basis for the evaluation and monitoring of these adverse effects. This course will also explore the FDA approval process, principles of medication safety, and their impacts on healthcare. Evaluation of student's performance will be achieved through presentations, quizzes, exams, and class participation.

This course offers pharmacy students the opportunity to complete the coursework provided by the American Pharmacist Association for the Delivering Medication Therapy Management Services certification. In addition to completing this coursework, students will have the opportunity to perform practice MTM cases and to review problems commonly

Each Advanced Pharmacy Practice Experience (APPE) is designed to offer the student increased experience in unique and progressive pharmacy practice settings. Students are exposed to the roles and responsibilities of the pharmacist in practice and the importance of the pharmacist in direct and indirect patient care. Students will be expected to hone practice skills, professional judgement, behaviors, attitudes and values, confidence, and a sense of personal and professional responsibility to practice both independently and collaboratively in an Interprofessional, team-based care environment. Courses are taught by full-time faculty members or by practicing pharmacists appointed by the University as Clinical Preceptors. APPEs take place at approved institutions and pharmacies. Most sites are located in West Tennessee; however the College has approved over 400 clinical preceptors working at 300 sites in 30+ states across the nation.

Each course is completed during a calendar month; rotations usually begin on the first and end on the last weekday of the month. The typical work week consists of 40 hours Monday-Friday; however evening and weekend hours are permitted. Students are expected to work a minimum of 160 contact hours during the rotation; exact schedules are set by the Clinical Preceptor.

Doctor of Pharmacy students are required to complete ten APPE courses. APPE courses cannot begin until the student has completed all required didactic courses and introductory pharmacy practice experiences.

Students must complete the following six required APPEs:

- APPE 700. Advanced Institutional Practice
- APPE 710A. Advanced Chain Community Practice
- APPE 710B. Advanced Independent Community Practice
- APPE 720. Ambulatory Care (any section)
- APPE 730A. Acute Care Internal Medicine
- APPE 730. (any section)

Students must complete four elective APPE courses, which include the following:

- APPE 710. (Any section, limited to one course in addition to the required courses stated above)
- APPE 720. (Any section)
- APPE 730. (Any section, not limited in number of courses)
- APPE 740, 750, or 770. (Any section, limited to two courses)

This APPE is a required course designed to offer the student advanced experience in an institutional pharmacy practice setting. Students will be expected to apply knowledge and skills learned during the experience and previously in the curriculum in order to accurately and efficiently fill prescription orders; comply with state and federal laws as well as regulations from accrediting agencies; identify and resolve medication-related problems; collect patient specific information for the development of an evidence-based treatment plan; respond to drug information questions; communicate effectively, orally and in writing, with patients, caregivers, and other health professionals; actively participate as an interprofessional healthcare team member; and conduct themselves in a professional manner.

Two APPEs in this section are required courses, 710A and 710B. One additional course can be completed as an elective APPE. Each course is designed to offer the student advanced experience in various community pharmacy practice settings. Students are expected to apply knowledge and skills learned during the experience and previously in the curriculum in order to accurately and efficiently fill prescription orders; identify and resolve medication-related problems; collect patient specific information for medication therapy management (MTM); appropriately document MTM and related activities; respond to drug information questions; identify and provide health prevention services, including immunizations; communicate effectively, orally and in writing, with patients, caregivers, and other health professionals; manage a pharmacy practice; and conduct themselves in a professional manner. Course are repeatable for credit.

One APPE in this section is required. Additional courses can be completed as elective APPEs. The course is designed to offer the student advanced experience in an ambulatory care pharmacy practice setting. Students are expected to apply knowledge and skills learned during the experience and previously in the curly 16 269.arned durinEMC /P <</L05.454EMC /P

Two APPEs from this section are required, including Acute Care Internal Medicine and any other course listed. Additional courses in this section may be completed as elective APPEs. These courses are designed to offer the student advanced experience in acute care pharmacy practice settings. Students are expected to apply knowledge and skills learned during the experience and previously in the curriculum in order to accurately and efficiently communicate with patients, caregivers, and health care professionals; collect and analyze patient information for the development of an evidence-based treatment plans in the acute care setting; appropriately documents interventions in the medical record; identify and resolve medication-related problems; respond to drug information questions; actively participate as an interprofessional healthcare team member; and conduct themselves in a professional manner.