DOCTOR OF PHARMACY

Available on the Jackson Campus

Union University's Doctor of Pharmacy program is accredited

Financial Assistance

Financial aid information for graduate students is available on our website at *www.uu.edu/financialaid/graduate/*. 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 Financial Planning as soon as possible after acceptance into a graduate program.

Interprofessional Practice and Education (IPE)

Interprofessional practice and education is incorporated in various courses throughout the curriculum. Pharmacy students are provided multiple opportunities to learn about, from and with other healthcare professionals to gain an understanding of the roles and responsibilities of all healthcare providers and how interprofessional teamwork can improve patient outcomes. IPE enables future pharmacists to become collaborative practice ready providers.

Center for Population Health and Rural Medicine (PHaRM)

The purpose of the Center for Population Health and Rural Medicine (PHaRM) is to advance Union University's mission of [illegible] (PHaRM))-(vider)3Pht68.3 (-0.9andiMC /Sp14.5 (ough14.4i)0.8 (ab or)-19.3 (erMC /

Please see the Master of Business Administration section of the Graduate Catalog for MBA core coursework and prerequisite coursework. MBA core coursework can be done on either Union's Jackson or Germantown campuses or a combination of the two. Please contact the MBA Director (731-661-5341) in the McAfee School of Business for any questions you may have regarding the Pharm.D./MBA Dual Degree Program.

Course Descriptions: Pharmacy (PHRM)

BPE: Board-preparatory elective
NBPE: Non board-preparatory elective

510. Advanced Human Gross Anatomy (2)
Prerequisites: PHRM 505 & 507, or BIO 221 & 222.
Reciprocal Credit: BIO 510
This course will incorporate the dissection of cadavers and viewing of anatomical models in understanding the nervous, endocrine, cardiovascular, respiratory, digestive, and urinary systems of the human body. Additional emphasis is placed on the needs of professional health care personnel.

514. Immune Response to Infectious Disease (3) F
Reciprocal Credit: BIO 514
This course reviews the organisms associated with infections in human with application directed towards those most commonly encountered in the United States. This will be integrated with a study of the immune system, how the body responds to various types of infections, and relevant clinical treatment methods.

519. Clinical Microbiology (2)
Reciprocal credit: BIO 519
A review of the organisms associated with infections in humans with application directed towards those most commonly encountered in the United States. This will focus on how the body responds to various types of infections, and relevant clinical treatment methods.

524. Immunology Concepts (1)
Reciprocal credit: BIO 524
A survey of the immune system. This will be integrated with how the body responds to various types of immunologic disorders and relevant clinical treatment methods.

700. Introduction to Pharmacy (2)
Introduction to the practice of pharmacy for first year students including an introduction to the profession and its evolving opportunities, what a pharmacist is, their role in the various settings of the health care system including drug distribution, drug utilization and the use of technology and supportive personnel.

701. Special Projects in Community Practice (2) (BPE)
This course provides advanced knowledge of clinical topics and emerging practice developments as they relate to community practice. Students will learn aspects of community practice beyond the traditional dispensing role of the pharmacist and gain skills to aid them in becoming community pharmacy practice innovators.

702. Ambulatory Care (2) (BPE)
An elective course designed to strengthen the student's understanding of diseases or illnesses common in an adult ambulatory care practice. The course utilizes group discussion of primary literature and the development of clinical practice guidelines. Student presentations and other active learning activities will extend knowledge beyond that provided in previous coursework.

703. Introduction to Population Pharmacokinetics (2) (BPE)

709. Drugs of Abuse (2) (BPE)
A course examining current knowledge about drugs and substances of abuse or misuse. Emphasis will be given to societal issues and the role a pharmacist can play as a provider of drug facts and information.

710. Medical Terminology (1)
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.

711. Heath Care and Missions (2) (NBPE)
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.

712. Oncology (2) (BPE)
Elective course to provide students advanced exposure to oncology building on topics in PHRM 761. 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.

713. Critical Care (2) (BPE)
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.

714. IPE I (1)
715. IPE II (1)
720. IPE III (1)
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.

716. Principles of Pharmaceutical Sciences (3)
An introduction to the chemical and physical properties of

726. Pharmacological Basis of Drug Action I (3)
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.

727. Institute on Alcoholism and Drug Dependencies (2) (BPE)
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.

728. Chemical Basis of Drug Action I (3)
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.

729. Immunization Training and Certification (1)
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.

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740. Pharmacotherapy I (2)
741. Pharmacotherapy II (3)
750. Pharmacotherapy III (3)
751. Pharmacotherapy IV (3)
760. Pharmacotherapy V (3)
761. Pharmacotherapy VI (2)
769. Pharmacotherapy VII (2)

764. Pharmaceutics I Lab – Compounding (1)
This lab course is designed for PY2 students to apply some of the

Advanced Pharmacy Practice Experience (APPE)

Each Advanced Pharmacy Practice Experience (APPE) is designed to offer the student advanced experience in unique and progressive pharmacy practice settings. Students are exposed to the role and responsibilities of the pharmacist in practice and the importance of the pharmacist in direct or 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 will be 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 will be 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 six required APPE courses, which include the following:

- 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. 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, not limited in number of courses)
- APPE 730. (Any section, not limited in number of courses)
- APPE 740, 750, or 770. (Any section, limited to two courses)

700. Advanced Institutional Practice (4)
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; 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; and conduct themselves in a professional manner.

710. Advanced Community Practice (4 each)
Two APPEs in this section are required courses, 710A and 710B. One additional course can be taken as an elective course. 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; collect patient specific information for medication therapy management (MTM); appropriately document MTM and related activities; respond to drug information questions; communicate effectively, orally and in writing, with patients, caregivers, and other health professionals; manage a pharmacy practice; and conduct themselves in a professional manner.
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