

DOCTOR OF PHARMACY

THE SCHOOL OF PHARMACY

Available on the Jackson Campus

Union University's Doctor of Pharmacy program holds "in process" status with the Accreditation Council for Pharmacy Education (ACPE, www.acpe-accredit.org), the national organization that accredits Doctor of Pharmacy programs offered by Colleges and Schools of Pharmacy in the United States and selected non-U.S. sites. Questions about the status of the University's accreditation may be posed to the Dean of the School of Pharmacy's office (731.661.5958) or to ACPE (312.664.3575).

Mission Statement

- To promote a Christ-centered environment that focuses on the intellectual, spiritual, and moral development of students in committing themselves to the service and needs of society
- To provide academic excellence that instills knowledge of basic biomedical sciences, pharmaceutical sciences, social pharmacy sciences, behavioral pharmacy sciences, administrative pharmacy sciences and clinical sciences
- To develop the pharmacy student as a practitioner that is people-focused in providing optimum care to clients based on evidence-based best practice standards
- To support an academic environment that fosters the future-directed growth of student educational opportunities as it relates to new educational, practice, and research initiatives.

Program Outcomes

- Provide patient care in cooperation with patients, prescribers, and other members of an inter-professional health care team based upon sound therapeutic principles and evidence-based data, taking into account relevant legal, ethical, social, cultural, economic, and professional issues, emerging technologies and evolving biomedical, pharmaceutical, social/behavioral/administrative, and clinical sciences that may impact therapeutic outcomes.
- Manage and use resources of the health care system, in cooperation with patients, prescribers, and other health care providers, and administrative and supportive personnel, to promote health; to provide, assess, and coordinate safe, accurate, and time-sensitive medication distribution; and to improve therapeutic outcomes of medication use.
- Promote health improvement, wellness, and disease prevention in cooperation with patients, communities, at-risk populations, and other members of an inter-professional team of health care providers.

Graduate Program Admission Requirements

The pre-professional educational design for candidates applying to the School of Pharmacy is based on a minimum of 3 years (90 semester hours) of college-level course work in the areas of basic chemistry, biological and physical sciences, mathematics, information technology, and general education courses in the humanities and behavioral/social sciences. The minimum 90 hours must be distributed as follows:

Course	Semester Hours
Biology or Zoology I & II.....	8
General Chemistry I & II.....	8
Organic Chemistry I & II.....	8
Human Anatomy and Physiology I & II.....	8
Physics I.....	4
Biochemistry I & II.....	6
Microbiology.....	3
Immunology.....	3
Calculus.....	3
Statistics.....	3
Written Composition I & II.....	6
Communications/Speech.....	3
Humanities Electives.....	6
Social Sciences Electives.....	6
General Electives.....	15

Admission to the Union University School of Pharmacy is by committee action, based on the overall record and aptitude of the applicant. A minimum grade point average of 2.75 on a 4.0 scale is required for pre-pharmacy course work with a grade of "C" or higher for each required pre-pharmacy course. The cumulative grade point average, pre-pharmacy and elective course work, must be a minimum of 2.5. All candidates are required to take the Pharmacy College Admission Test (PCAT). A comprehensive score of 40th percentile with no individual subject area score below 25th percentile is required for admission. Three references along with a writing sample must also be submitted. During the invitation-only, on-site interview, the candidate will be asked to provide a writing sample. Interviews are conducted by invitation only. While there is a priority deadline of February 1 of the year in which admission is desired, applicants are encouraged to apply early, as space is limited, and applications will be reviewed on a rolling basis. The School of Pharmacy admits only one class per year in the Fall Semester.

It is strongly recommended that candidates for the program gain work experience in a pharmacy practice setting prior to application.

Transfer of Courses

In keeping with the policies and procedures of ACPE accreditation, The School of Pharmacy will accept only transfer credit from an ACPE-accredited professional degree program. Courses must be earned with a grade of B or higher to be considered for transfer.

Progression of Students

A period of academic probation is defined as the semester immediately following the conclusion of the semester in which the student's academic performance meets any of the conditions for imposition of probation. The student is notified his/her academic probation status by both email and registered mail. Each semester that the student meets conditions for probation will count as a separate probationary period. Academic probation will be imposed upon a student when the student's academic performance meets any of the following conditions:

1. The cumulative grade point average earned at the conclusion of any semester, including the first semester, is less than 2.33.
2. The grade point average earned for any one semester is less than 2.00.
3. A student receives a grade of "F" in any required course. Additionally, students with outstanding

deficiencies in the professional curriculum (Incomplete or "F") may not attend courses in the next semester without affirmative action by the Academic Standing Committee.

A student will be subject to a dismissal recommendation when any one or more of the following conditions are met:

1. A period of probation is imposed for a second time and the cumulative grade point average is less than 2.33. These probationary periods do not have to be sequential semesters.
2. A period of probation is imposed for a third time, regardless of the cumulative grade point average.
3. A student who receives two or more grades of "F" in required courses, regardless of the cumulative grade point average.

Students may appeal in accordance with procedures detailed under "Academic Grievance Procedures."

Financial Information

Tuition is \$23,000 per year for the Doctor of Pharmacy. Full payment for a term (Fall, Winter, Spring, Summer Semesters or other non-regular terms) is expected at the time of registration for classes.

Application Fee	\$50
Graduation Fee	25
Laptop	actual cost*
Liability Insurance	32/year
Cap & Gown Rental.....	approximately \$150
Criminal Background Check.....	70
Urine Drug Screen.....	25
Materials Fees.....	approximately \$100/year

Books will cost approximately \$300 per semester for Years 1-3 and are available for purchase from LifeWay Christian Stores.

*See the Pharmacy Student Handbook for specifications and for possible commercial discounts to UU Pharmacy students.

Federal Stafford Loan

The Stafford loan application process will require that you:

1. Complete and forward the FAFSA (Free Application for Federal Student Aid) to the federal government with Union University's code of 003528.
2. Complete a Union Financial Aid Application and a Stafford Master Promissory Note and forward to the Union University Student Financial Planning Office.
3. For more information, contact the Student Financial Planning Office at 731-661-5015.

If Federal Stafford loan is not approved and available at the time of registration, the student must assume the cost by paying in full by check, cash, credit card, or FACTS.

Acceptance Deposits

The Doctor of Pharmacy requires a \$ 500 tuition deposit. This deposit is non-refundable if the student elects not to enroll. Applicants accepted on a waiting list basis will receive a full refund if status is not changed to "accepted" by the first day of class.

Graduation Requirements

- Completion of the coursework for the Doctor of Pharmacy with a minimum cumulative grade point average of 2.33.
- File an application for graduation with the Doctor of Pharmacy program office by February 20 for a May graduation.
- Pay in full the student's account balance with the Business Office.
- Discharge all other obligations (fines, credentials, fees, etc.) at the University.

Course Requirements of the Doctor of Pharmacy—148 hours

- Year I courses: BIO Advanced Human Anatomy & Physiology, I, II; BIO Advanced Gross Anatomy; PHRM 700, 705, 715, 718, 723, 725, 727, 729
- Course syllabi for Years II, III, and IV are being developed in full and require the input of the pharmacy faculty. The semester delivery of courses will be a part of that development process during the Year I of course offerings.
- Electives: 12 hours from PHRM Electives or other graduate elective courses as approved by the Dean of the School of Pharmacy.

Course Descriptions: Pharmacy (PHRM)

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.

705. Pharmaceutical Calculations (2)

This self-taught course introduces the prescription, prescription notation and abbreviations, basic pharmaceutical calculations, statistics, and the mathematics of chemical kinetics and pharmacokinetics.

707. Pain Management (2)

An elective course providing an introduction to pain management, including classifications, pain assessments, pharmacological and non-pharmacological treatment options of a variety of nociceptive and neuropathic pain syndromes (cancer pain, sickle cell disease, diabetic neuropathy, chronic pain syndromes, etc).

708. Self-Care/Counseling (2)

An elective course introducing common medical conditions and the corresponding devices that are used in drug delivery and drug monitoring. Also provides an opportunity for the student to learn and demonstrate patient counseling techniques regarding these medications and devices.

709. Drugs of Abuse (2)

An elective 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.

715. Principles of Medicinal Chemistry (2)

An introduction to the chemical and physical properties of medicinal agents.

718. Non-Prescription Drugs/Counseling (4)

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

723. Drug Information and Informatics (3)

Introduction to medical informatics and a wide variety of reference materials (primary, tertiary, and internet and database sources) and the use of these materials in pharmacy practice.

725. Medicinal Chemistry I (2)

Prerequisite: PHRM 715

Introduction to the chemical and physical properties of medicinal agents and the relationships of structural properties of drugs to pharmacological properties, absorption, distribution, and metabolism profiles, chemical stability, mechanism of action and clinically significant drug interactions.

727. Pharmacology I (3)

Basic concepts of a drug's physical and chemical properties and the principles of drug action. Emphasizes the determinants of drug absorption and distribution, physiological receptors and the nature of the drug-receptor interaction, drug metabolism and elimination, and automatic pharmacology.

729. Immunization (1)

Certification course that focuses on the importance of vaccination for preventable disease as well as injection technique. Also discusses how a pharmacist can implement an immunization program into various pharmacy practice settings.

730. Introduction to Community Practice (2)

The first of four courses designed to focus on the development of the professional skills required for contemporary pharmacy practice. Students will spend 2 weeks (80 hours) in a community practice setting and gain exposure to the role and responsibilities of the pharmacist in community practice and the importance of the pharmacist in patient care. This course will be repeated for 4 semester hours total.

731. Introduction to Institutional Practice (2)

Building on PHRM 730, the second of four courses designed to focus on the development of professional skills required for contemporary pharmacy practice. 80 clock hours required. This course will be repeated for 4 semester hours total.

Course descriptions of following are under development by the Pharmacy Faculty:

- 739. Clinical Laboratory Medicine (1)
- 740. Pharmacotherapy I (3)
- 741. Pharmacotherapy II (3)
- 743. Moral Reasoning in Health Care (2)
- 744. Pharmacy Jurisprudence (2)
- 745. Medicinal Chemistry III (2)
- 747. Pharmacology III (3)
- 749. Applied Therapeutics with Simulation (1)
- 750. Pharmacotherapy III (3)
- 751. Pharmacotherapy IV (3)
- 760. Pharmacotherapy V (3)
- 761. Pharmacotherapy VI (3)

765. Pharmacoeconomics and Health Systems Management (2)**766. Patient Assessment and Interviewing (2)****769. Applied Therapeutics with Simulation (1)****770. Pharmacokinetic Principles and Application (4)****772. Literature Evaluation/Landmark Trials (2)****780. Experience I-VI (4 hours each):**

780E. Ambulatory Care

780A. Acute Care

780M. Medically Underserved

780C. Community Pharmacy Practice

780I. Institutional Pharmacy Practice

781. Experience VII-X (4 hours each) To Be Determined**788. MPJE/NAPLEX Review (2)****789. Top 200 Seminar (2)****779. External Domestic Study Programs (1-4)**

All courses and application to the program must be defined prior to travel.

780. Study Abroad Programs (1-4)

All courses and application to the program must be defined prior to travel.

785. Special Studies in Pharmacy (1-6)

Group studies which do not appear in the School course offerings. Content will be determined by need.

795. Independent Study in Pharmacy (1-3)

Individual research and study under the guidance of a pharmacy faculty member.