The vision of the Union University School of Pharmacy is to:

- Develop an academic culture that instills knowledge and advances understanding of biomedical, pharmaceutical, social/behavioral/administrative, and clinical sciences
- Provide 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
- Develop pharmacy students as practitioners who are people-focused in providing optimum care based on evidence and best-practice standards
- Support an academic environment that fosters the future-directed growth of students and faculty as it relates to education, practice, research, and scholarship 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:

<table>
<thead>
<tr>
<th>Course Semester Hours</th>
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<tbody>
<tr>
<td>Biology or Zoology I &amp; II</td>
</tr>
<tr>
<td>General Chemistry I &amp; II</td>
</tr>
<tr>
<td>Organic Chemistry I &amp; II</td>
</tr>
<tr>
<td>Human Anatomy and Physiology I &amp; II</td>
</tr>
<tr>
<td>Physics I</td>
</tr>
<tr>
<td>Biochemistry I &amp; II</td>
</tr>
<tr>
<td>Microbiology</td>
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<tr>
<td>Immunology</td>
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<tr>
<td>Calculus</td>
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<tr>
<td>Statistics</td>
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<tr>
<td>Written Composition I &amp; II</td>
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<tr>
<td>Communications/Speech</td>
</tr>
<tr>
<td>Humanities Electives</td>
</tr>
<tr>
<td>Social Sciences Electives</td>
</tr>
<tr>
<td>General Electives</td>
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</tbody>
</table>

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 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 March 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.
**Remediation**

**Didactic**

For students who meet defined criteria, The School of Pharmacy will consider allowing remediation and the opportunity to continue progression through the curriculum despite setbacks in didactic courses. Additionally, for pharmacy practice experiences, remediation of IPPE/APPE courses is described in a separate section below.

**Process for Remediation**

The student will be notified of an academic deficiency by registered mail and email. The student will be informed in this notification of his/her right to come before the Academic Standing and Promotion Review (ASPR) subcommittee. This meeting will allow the student to explain and clarify the situation. The ASPR subcommittee will make a recommendation on the student’s case and then communicate this recommendation by registered mail and email to the student. The ASPR subcommittee will communicate with the Course Coordinator regarding the feasibility of remediation. Students should not discuss remediation with the Course Coordinator prior to the meeting with ASPR.

Students have the right to appeal the decision made by ASPR as outlined in the Progressions policy above. Remediation will only be allowed twice during the course of the pharmacy program.

**Qualifications for Remediation**

A student must meet the following criteria:
- The grade in the course wherein the student is requesting remediation has a final percentage average >59.5%. Students whose average is below 59.5% may be required to repeat the course in its entirety.
- The student’s semester grade point average is >2.0 and overall academic grade point is >2.33 on a 4-point scale.
- The course coordinator is in agreement and is supportive of the remediation.
- The student must have no violations of the academic or professional codes of conduct.
- The student must not have remediated more than once previously.

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**Financial Information**

Tuition is $24,150 per year with $1,200 lab fees ($600/semester) 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.

<table>
<thead>
<tr>
<th>Fee</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Fee</td>
<td>$50</td>
</tr>
<tr>
<td>Graduation Fee</td>
<td>$25</td>
</tr>
<tr>
<td>Laptop</td>
<td>actual cost*</td>
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<tr>
<td>Liability Insurance</td>
<td>$32/year</td>
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<tr>
<td>Cap &amp; Gown Rental</td>
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<tr>
<td>Criminal Background Check</td>
<td>$70</td>
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<tr>
<td>Urine Drug Screen</td>
<td>$25</td>
</tr>
<tr>
<td>Materials Fees</td>
<td>approximately $100/year</td>
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*See the Pharmacy Student Handbook for specifications and for possible commercial discounts to UU Pharmacy students.

Books will cost approximately $300 per semester for Years 1-3 and are available for purchase from LifeWay Christian Stores.
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 $1,000 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.

Course Requirements of the Doctor of Pharmacy—147 hours

I. Year I courses: BIO Advanced Human Anatomy & Physiology, I, II; BIO Advanced Gross Anatomy; PHRM 700, 705, 710, 715, 718, 723, 725, 727, 729; IPPE 730, 731.
II. Year II courses: PHRM 733, 734, 735, 737, 740, 741, 743, 744, 745, 747, 749, 750, 751; IPPE 746, 748.
III. Year III fall courses: 760, 761, 765, 766, 769, 770, 772.
Course syllabi for Winter Year III and Year IV are being developed in full.
IV. Electives: 12 hours from PHRM Electives or other graduate elective courses as approved by the Dean of the School of Pharmacy.

Course Descriptions: Biology (BIO)

505. Applied Anatomy & Physiology I (3)
An intensive examination of the human body that addresses the normal complex physiological processes of the cell, fluids and electrolytes, acid-base balance, temperature regulation, vascular hemodynamics, mobilization of fluids through the body and lymphatic system, musculoskeletal systems and function of the myocardium. The acquired information will provide the student with a body of knowledge to critically evaluate co-existing conditions of the surgical patient.

507. Applied Anatomy & Physiology II (3)
Prerequisite: BIO 221 and 222
A continuation of 505 focusing on the normal complex physiological processes of blood components and coagulation and the respiratory, renal, endocrine, digestive and nervous system

510. Advanced Human Gross Anatomy (4)
Prerequisites: BIO 505 & 507, or BIO 221 & 222.
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.

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.

701. Faith and Science in Pharmacy (2)
An examination of the philosophical underpinnings of the Christian worldview as it applies to faith and science in the arena of health care.

702. Ambulatory Care (2)
Topics include, but not limited to: anticoagulation, diabetes mellitus, hyperlipidemia and hypertension. An overview of each disease state, current treatment guidelines, landmark clinical trials, and cases will be presented by students in a team-based learning approach.

704. Applied Drug Information (1)
A required APPE that provides the formal experiential drug information training of the curriculum. Both project process and end product will be guided and evaluated. Projects, as approved by instructor and preceptor, may satisfy the requirements of this course only.
705. Pharmaceutical Calculations (2)
This course introduces the prescription, prescription notation and abbreviations, basic pharmaceutical calculations, statistics, and the mathematics of chemical kinetics and pharmacokinetics.

706. Advanced Cardiovascular Pharmacotherapy (2)
An elective providing the student with a more thorough study of cardiology and cardiovascular topics in application of the therapies and techniques covered.

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.

710. Medical Terminology (1)
To familiarize students with the language of medicine, the course describes how medical terms are built from word parts and teaches correct use in relation to multiple body structures, disease states, and treatment options.

711. Healthcare and Missions (2)
The opportunity to participate in a short-term health care mission trip whereby they learn to coordinate drug distribution, make pharmacotherapy recommendations within a limited formulary and provide patient education in a challenging communication environment. Students are trained to provide care in this environment guided by faculty.

712. Oncology (2)
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)
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. Neuroscience (2)
An elective pharmacotherapy subspecialty course covering the drug therapy management of neurologic and psychiatric diseases and conditions. The primary purpose is to enable students to apply knowledge of pathology, pathophysiology, diagnosis, clinical presentation, classification, goals of therapy, non-pharmacotherapy, pharmacotherapy, considerations for special populations, and patient counseling to optimize patient outcomes. This course is designed to develop the student's ability to apply principles of clinical therapeutics in pharmacy practice, with particular focus given to those disorders which affect the central nervous system and the mind.

716. Principles of Pharmaceutical Sciences (2)
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.

717. Advanced Pain Management (2)
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.

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.

719. Pharmacology Research (2)
Students will 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.

721. Advanced Pharmacokinetics (2)
Building on foundational principles, students will use analysis software to perform nonlinear regression of pharmacokinetic data. They will evaluate literature to 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, enteropharmacokinetic recirculation models and chronopharmacokinetics.
722. Concepts in Toxicology (2)
Principles of toxicology through lectures, discussion, and developing and giving oral presentations about current toxicological issues within the field of pharmacy.

723. Drug Information and Informatics (3)
An introduction to medication information resources such as reference books, databases and clinical trials, and their interpretation and appropriate use in pharmacy practice. Pharmacy informatics principles and technologies are also introduced.

724. Diabetes Management (2)
Provides 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.

726. Pharmacological Basis of Drug Action I (3)
An introduction for first year pharmacy students to pharmacology by examining how drugs affect biological systems. The course will examine drug classes, mechanisms of action and drug toxicities.

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 (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.

732. Introduction to Medicinal Chemistry Research (2)
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.

733. Pharmaceutics I (4)
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, tables, and capsules, as well as the biopharmaceutical principles of bioavailability and bioequivalence. This course includes laboratory experiences in compounding pharmaceutical dosage forms.

734. Pharmaceutics II (4)
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.

736. Pharmacological and Chemical Basis of Drug Action II (4)
738. Pharmacological and Chemical Basis of Drug Action III (4)
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, elimination, chemical stability, mechanisms of action, clinically significant drug interactions and side effects. This course requires a student to think critically about a drug's structure as it relates to the aforementioned topics.

739. Clinical Laboratory Medicine (1)
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.

740. Pharmacotherapy I (3)
Drug therapy management of diseases and conditions associated with specific organ systems and will enable students to apply knowledge of pathology, pathophysiology, diagnosis, clinical presentation, classification, goals of therapy, non-pharmacotherapy, pharmacotherapy, considerations for special populations, and patient counseling to optimize patient outcomes. This course addresses medical conditions related to respiratory, gastrointestinal, and endocrinology disorders.

741. Pharmacotherapy II (3)
Drug therapy management of diseases and conditions associated with specific organ systems and will enable students to apply knowledge of pathology, pathophysiology, diagnosis, clinical presentation, classification, goals of therapy, non-pharmacotherapy, pharmacotherapy, considerations for special populations, and patient counseling to optimize patient outcomes. This course addresses medical conditions related to cardiology.

742. Student Leadership Development (2)
Interdisciplinary focus on fostering the development of leadership (both positional and non-positional) in students and individual commitment to excellence through a series of active learning exercises.
743. Moral Reasoning in Healthcare (2)
An introduction to ethical theories, focusing on methodology with a survey and comparison of philosophical perspectives on moral issues faced in health care today.

744. Pharmacy Jurisprudence (2)
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.

746. Introduction to Community Pharmacy Practice II (2)
The 3rd of 4 courses designed to focus on the development of professional skills required for contemporary pharmacy practice. Two weeks/80 contact hours in a community practice setting exposing the student to the role and responsibilities of the community pharmacist and the importance of the pharmacist in patient care.

748. Introduction to Institutional Pharmacy Practice II (2)
The 4th of 4 courses designed to focus on the development of professional skills required for contemporary pharmacy practice requiring 2 weeks/80 contact hours in an institutional or specialty practice setting exposing the student to the role and responsibilities of the community pharmacist and the importance of the pharmacist in patient care.

749. Applied Therapeutics with Simulation (1)
Introduction to the concepts of pharmaceutical care into the curriculum prior to the advanced pharmacy practices experiences by placing students in the clinical environment.

750. Pharmacotherapy III (3)
Drug therapy management of diseases and conditions associated with specific organ systems and will enable students to apply knowledge of pathology, pathophysiology, diagnosis, clinical presentation, classification, goals of therapy, non-pharmacotherapy, pharmacotherapy, considerations for special populations, and patient counseling to optimize patient outcomes. This course addresses medical conditions related to infectious diseases.

751. Pharmacotherapy IV (3)
Drug therapy management of diseases and conditions associated with specific organ systems and will enable students to apply knowledge of pathology, pathophysiology, diagnosis, clinical presentation, classification, goals of therapy, non-pharmacotherapy, pharmacotherapy, considerations for special populations, and patient counseling to optimize patient outcomes. This course addresses medical conditions related to neurology, psychiatry and pain management.

753. Social and Behavioral Research Design I (2)
754. Social and Behavioral Research Design II (2)
A two-course sequence designed to provide students an opportunity to develop, conduct, analyze and defend a research project to students & faculty with basic concepts and techniques in social science research methodology, design and analysis and critical evaluation of quantitative and qualitative studies.

760. Pharmacotherapy V (3)
Drug therapy management of diseases and conditions associated with specific organ systems and will enable students to apply knowledge of pathology, pathophysiology, diagnosis, clinical presentation, classification, goals of therapy, non-pharmacotherapy, pharmacotherapy, considerations for special populations, and patient counseling to optimize patient outcomes. This course covers critical care/nutrition topics.

761. Pharmacotherapy VI (3)
Drug therapy management of diseases and conditions associated with specific organ systems and will enable students to apply knowledge of pathology, pathophysiology, diagnosis, clinical presentation, classification, goals of therapy, non-pharmacotherapy, pharmacotherapy, considerations for special populations, and patient counseling to optimize patient outcomes. This course addresses medical conditions related to oncology, hematology, HIV/AIDS, dermatology, rheumatology, men’s and women’s health, and toxicology.

765. Pharmacoeconomics and Health Systems Management (2)
Concepts and theories of pharmacoeconomics and human resource management in all pharmacy practice settings: planning, implementation, and analysis processes as related to personnel along with fiscal management at the systems, pharmacy and patient level.

766. Patient Assessment and Interviewing (2)
Hands-on opportunity for students to apply concepts of physical assessment and interviewing in a clinical laboratory environment. Students will be able to assess response to drug therapy by a combination of physical assessment and provide-patient communication.

767. Applied Therapeutics with Simulation II (1)
768. Applied Therapeutics with Simulation I (1)
An introduction to the concepts of pharmaceutical care providing direct patient contact. Graded pass/fail.

770. Pharmacokinetic Principles and Application (4)
This course introduces pharmacokinetic principles and therapeutic drug monitoring. Students will gain an understanding of the absorption, distribution, metabolism and elimination of drugs, focusing on quantitative aspects of these processes. Pharmacodynamic and clinical implications will be explored, including how to formulate appropriate dosing regimens based on patient specific physiological and environmental factors. Pharmacokinetic variability caused by differences in intrinsic and extrinsic factors will be discussed. Didactic course work will be further emphasized via clinical cases in a laboratory setting.

771. Critical Review of Drugs (2)
Designed to strengthen student’s knowledge of common critical care with emphasis on application 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. Includes student presentations to extend their knowledge.
772. Literature Evaluation / Landmark Trials (2)
Building on the principles introduced in PHRM 723, this course trains students in the interpretation and critical analysis of biomedical literature for the purpose of developing evidence-based care recommendations for a given patient or patient population.

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.

Advanced Pharmacy Practice Experience (APPE)

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. Additional courses can be taken as elective courses. All are designed to offer the student advanced experience in various community pharmacy practice settings. 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, collect patient specific information for medication therapy management; 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. Course are repeatable for credit.

710A. Advanced Chain Community Practice.
710B. Advanced Independent Community Practice.

720. Ambulatory Care (4)
This Advanced Pharmacy Practice Experience (APPE) is a required course. The course is designed to offer the student advanced experience in an ambulatory care pharmacy practice setting. Students will be expected to apply knowledge and skills learned during the experience and previously in the curriculum in order to communicate effectively with patients and health care providers, develop evidence-based treatment plans, respond to drug information questions, manage a patient-centered practice, and conduct themselves in a professional manner.

730. Acute Care Pharmacy Practice (4)
One Advanced Pharmacy Practice Experience (APPE) from this section is required. Additional courses in this section may be taken as elective courses. These courses are designed to offer the student advanced experience in acute care pharmacy practice settings. Students will be 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; respond to drug information questions; and conduct themselves in a professional manner.

740. Practice Management (4 each)
These Advanced Pharmacy Practice Experiences (APPEs) are elective courses designed to offer the student advanced experience in the management of pharmacy practice in various settings. Students will be expected to apply knowledge and skills learned during the experience and previously in the curriculum in order to manage inventory, contracts, reimbursement, information, risk, and human resources; including scheduling, salaries, and performance evaluations.

740A. Institutional Practice Management
740B. Community Practice Management
750. Specialty Pharmacy Practice (4 each)
These Advanced Pharmacy Practice Experiences (APPEs) are elective courses designed to offer the student advanced experience in specialty pharmacy practice settings. Students will be 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 various practice settings, including home-bound patients, residents of nursing homes or other long-term stay facilities; respond to drug information questions; and conduct themselves in a professional manner.

750A. Home Infusion
750B. Long Term Care
750C. Managed Care
750D. Sterile Products
750E. Pharmaceutical Industry/Medical Affairs

750. Specialty Pharmacy Practice (4 each)
These Advanced Pharmacy Practice Experiences (APPEs) are elective courses designed to offer the student advanced experience in specialty pharmacy practice settings. Students will be 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 various practice settings, including home-bound patients, residents of nursing homes or other long-term stay facilities; respond to drug information questions; and conduct themselves in a professional manner.

750A. Home Infusion
750B. Long Term Care
750C. Managed Care
750D. Sterile Products
750E. Pharmaceutical Industry/Medical Affairs

760. Drug Information (4 each)
This Advanced Pharmacy Practice Experience (APPE) is an elective course designed to offer the student advanced experience in the provision of drug information. Students will be expected to apply knowledge and skills learned during the experience and previously in the curriculum in order to completely define the specific drug information question, use appropriate resources to efficiently and accurately research drug information questions, respond to drug information questions in a professional manner, communicate effectively with patients and health care providers, and conduct themselves in a professional manner.

770. Pharmacy Research (4 each)
These Advanced Pharmacy Practice Experiences (APPEs) are elective courses designed to offer the student experience in conducting scientific research in a particular discipline. Students interested in completing any of these courses should consult with the course coordinator prior to registration.

770A. Drug Design and Synthesis
770B. Pharmacology Research
770C. Pharmaceutics Research
770D. Pharmacy Administration
770E. Pedagogy