



Inquire, Innovate, Involve (I3) Curriculum

REQUIRED P1 (FIRST YEAR) COURSES:

Transitions (T 1) 1 week	Foundations in Pharmacy Administration (FIPA 1) 2 weeks	Concepts in Patient Care (CIPC 1) 5 weeks	Principles of Drug Action (PODA) 16 weeks	Concepts in Patient Care 2 (CIPC 2) 4 weeks	Program Level Assessment (PLA) 1 week	Transitions 2 (T 2) 1 week	IPPE – Community Pharmacy 1 week (Summer)
		Integrated Patient Care Laboratory (IPCAL) 27 weeks					
		Longitudinal IPPE (IPPE) 27 weeks					

Transitions 1&2: The Transitions sequence of courses provides students with essential skills and tools for successful matriculation and progression through the professional PharmD curriculum. The courses emphasize development and assessment of interpersonal skills such as professionalism, self-awareness, leadership, and entrepreneurship and innovation. Strategies and resources for wellness are also highlighted and reinforced.

FiPA 1: This module provides students with an introduction to the U.S. healthcare system, management, leadership, and pharmacy law, in the context of preparing them for their roles as pharmacy interns and future pharmacy practitioners. The concepts covered in this module forwardly integrates with selected pharmacy practice topics in future modules (e.g. IPCAL, IPPE), as well as more advanced topics in the Foundations in Pharmacy Administration 2 (FiPA-2) module in the P3 year. As much as possible, this course involves the use of active learning strategies that are focused on helping students to apply what they have learned through pre-class preparation, in-class lectures and activities, and individual study.

IPCAL 1&2: The first and second courses in a series of authentic, hands-on experiences that enable students to master component skills that are essential for exemplary patient care. Students practice

integration of these patient care skills in simulated practice settings. Topics include pharmacy calculations, community pharmacy dispensing, communication, Top 200 drugs, drug information in the community setting, and non-sterile compounding.

IPPE 1&2: This is a two-semester sequence of part-time experiences that enhance and complement first-year professional coursework. The experiential education team works in cooperation with faculty teaching didactic courses (especially Concepts in Patient Care and the Integrated Patient Care Lab). Students engage in activities in community pharmacies and with other pharmacy partners. Activities provide a foundation for attitudes and skills that will be applied during the progression of professional experiences in Introductory Pharmacy Practice Experience (P2 and P3 years) and full-time, Advanced Pharmacy Practice Experiences (APPE Sequence).

CiPC 1&2: A series of courses addressing concepts and skills that are essential components of exemplary patient care. This module focuses on oral and written communication, as well as drug information skills in using the patient care process to counsel patients on the selection and use of nonprescription medications, most especially in community and ambulatory care pharmacy settings. Materials will be delivered via lectures, small group activities, and case-based discussions.

PoDA 1&2: This module provides basic foundations in the pharmaceutical sciences necessary for the understanding of drugs and determinants of physical chemistry of pharmaceutical products, medicinal chemistry and pharmacokinetics.

Program-Level Assessment - 1: This module assesses student performance on the program-level ability based outcomes as well as demonstrating that students are achieving outcomes required by specialized accreditor the Accreditation Council for Pharmacy Education (ACPE).

REQUIRED P2 (SECOND YEAR) COURSES:

Concepts in Patient Care (CIPC 3) 2 weeks	Integrated Pharmacotherapy (IP)* 24 weeks	Concepts in Patient Care (CIPC 4) 2 weeks	Program Level Assessment (PLA) 1 week	IPPE – Hospital Pharmacy 1 week (Summer)
Integrated Patient Care Laboratory (IPCAL) 28 weeks				
Interprofessional Education (IPE) Periodic over 28 weeks				
Longitudinal IPPE (IPPE) 28 weeks				
Personalized Electives				

CiPC 3&4: The second year series of courses addresses concepts and skills that are essential components of exemplary patient care. This course focuses on communication and drug information skills in the context of understanding and utilizing the patient care process. Communication and drug information skills will be discussed and applied in the context of community, institutional, ambulatory care pharmacy practice as well as other settings.

IP 1&2: The first half of a four-course sequence that is designed to teach PharmD students pathophysiology, pharmacology, and pharmacotherapy using an integrated approach. This approach facilitates the development of a rigorous understanding of the scientific basis for preventing and managing human health disorders, and the ability to integrate and apply that knowledge while providing exemplary medication-related patient-centered and population-based care. The courses in the Integrated Pharmacotherapy Sequence are organized into modules that are typically based on an organ system (e.g., the “cardiovascular diseases module”), and each module is organized by disease state (e.g., “hypertension”). IP1 consists of a series of modules on the cardiovascular, renal, and endocrine systems, and the disorders that affect those systems. IP2 consists of modules on immunology, the pulmonary system, infectious disease, gastrointestinal and genitourinary systems. Consideration of each disease state begins with the pathophysiology of the disease, continues with pharmacology of the drugs used to treat the disease, and ends with how those drugs are used in patients to achieve optimal therapeutic outcomes.

IPCaL 3: The third course in a series of authentic, hands-on experiences that enables students to master component skills that are essential for exemplary patient care. Students will practice integration of these patient care skills in simulated practice settings. Topics include sterile compounding, IV order verification, electronic health records, communication with healthcare providers, drug information in the institutional setting, and other skills related to institutional practice. Students also continue to develop skills introduced earlier in the IPCaL sequence, including but not limited to communication with patients, Top 200 prescription drugs, and prescription verification.

IPCaL 4: The fourth course in a series of authentic, hands-on experiences that enables students to master component skills that are essential for exemplary patient care. Students will practice integration of these patient care skills in simulated practice settings. Topics include disease state management, comprehensive medication review, patient education, drug information in the ambulatory setting, documentation and other skills related to ambulatory care practice. Students will also continue to develop skills introduced earlier in the IPCaL sequence, including but not limited to communication with patients, Top 200 prescription drugs, and prescription verification.

IPE 1&2: The first half of a four-course sequence designed to teach PharmD students how to advance collaboration and quality of patient care by providing interprofessional opportunities for students to learn about, from, and with other members of the healthcare team. This required course will have three interactive collaborations per semester with at least one other healthcare discipline present at each time.

Program-Level Assessment - 2: This module assesses student performance on the program-level ability based outcomes as well as demonstrating that students are achieving outcomes required by specialized accreditor the Accreditation Council for Pharmacy Education (ACPE).

Personalized Electives: Students choose from an authorized list of elective courses both within the college and within the university to explore and expand areas of interest.

REQUIRED P3 (THIRD YEAR) COURSES:

Concepts in Patient Care (CIPC 5) 5 weeks	Integrated Pharmacotherapy (IP)* 19 weeks	Foundations in Pharmacy Administration 2 (FIPA 2) 4 weeks	Program Level Assessment (PLA) 1 week Transition 3 and Remediation 2 weeks
IPCAL 28 weeks			
Interprofessional Education (IPE) Periodic over 28 weeks			
Longitudinal IPPE 28 weeks			
Personalized Electives			

CiPC 5: The fifth part in a series of courses that addresses concepts and skills that are essential components of exemplary patient care. This course focuses on advancing professional practice skills and concepts related to nonprescription products and integrative medicine practices. This module will build on patient care process, communication, and drug information concepts from previous courses to ensure students are able to apply concepts and skills necessary to assist patients with self-care decisions and provide pertinent patient counseling about common nonprescription medications and integrative therapies.

IP 3&4: The second half of a four-course sequence designed to teach PharmD students pathophysiology, pharmacology, and pharmacotherapy using an integrated approach. This approach facilitates the development of a rigorous understanding of the scientific basis for preventing and managing human health disorders, and the ability to integrate and apply that knowledge while providing exemplary medication-related patient-centered and population-based care. The courses in the Integrated Pharmacotherapy Sequence are organized into modules that are typically based on an organ and each module is organized by disease state. IP3 consists of modules on neurological/psychological disease states, musculo-skeletal systems, and infectious disease. IP 4 consists of modules on oncology, hematology, and special populations. Consideration of each disease state begins with the pathophysiology of the disease, continues with the pharmacology of the drugs

used to treat the disease, and ends with how those drugs are used in patients to achieve optimal therapeutic outcomes.

IPCaL 5&6: The fifth and sixth courses in a series of authentic, hands-on experiences that enable students to master component skills that are essential for exemplary patient care. Students will practice integration of these patient care skills in simulated practice settings. Topics include synthesis of skills learned throughout the IPCaL sequence and other coursework to provide comprehensive patient care within complex scenarios. Patient care simulations will focus on preparation for Advanced Pharmacy Practice Experience (APPE) rotations.

IPE 3&4: The second half of the four course sequence designed to teach PharmD students how to advance collaboration and quality of patient care by providing interprofessional opportunities for students to learn about, from, and with other members of the healthcare team.

IPPE 5&6: Introductory pharmacy practice experiences. Students apply didactic pharmacy course work in a variety of pharmacy practice settings.

FiPA 2: The module presents advanced topics in pharmacy administration including management, the healthcare system and pharmacy law.

Program Level Assessment - 3: This module assesses student performance on the program-level ability based outcomes as well as demonstrating that students are achieving outcomes required by specialized accreditor the Accreditation Council for Pharmacy Education (ACPE).

Transition3 & 4: The Transitions sequence provides students with essential skills and tools for successful matriculation and progression through the professional PharmD curriculum. The courses emphasize development and assessment of interpersonal skills such as professionalism, self-awareness, leadership, and entrepreneurship and innovation. Strategies and resources for wellness are also highlighted and reinforced.

Personalized Electives: Students choose from an authorized list of elective courses both within the college and within the university to explore and expand areas of interest such as pediatrics, ethics and leadership.

REQUIRED P4 (FOURTH YEAR) COURSES:

APPE rotation or vacation* 4 weeks
APPE rotation or vacation plus Transitions 4 (T 4) 1 week

APPE: Advanced pharmacy practice experience rotations including ambulatory, community, institutional and elective settings. Students may receive Honors Level Performance distinction and have a textual note added to their official University transcript.

Professional Activities: Independent study activities related to advanced pharmacy practice experiences.