



جامعة عجمان
AJMAN UNIVERSITY

Doctor of Pharmacy (PharmD) Course Description

September 2026

Course description

A. College Obligatory Courses

Advanced Pharmacotherapy I (PHP500)

This course provides a comprehensive overview of cardiovascular diseases with a focus on the role of clinical pharmacists in prevention, diagnosis, and pharmacotherapeutic management. Topics include hypertension, heart failure, ischemic heart disease, arrhythmias, dyslipidemia, thromboembolic disorders, and cardiovascular conditions requiring critical care. Emphasis is placed on evidence-based practice, clinical guidelines, patient counseling, medication safety, and interdisciplinary collaboration.

Advanced Pharmacotherapy II (PHP501)

This course aims to examine antimicrobial stewardship core elements and practices that help optimize antimicrobial use and prevent emergence of resistance. It also provides in-depth knowledge and skills concerning the therapeutic management of commonly encountered infections such as urinary, respiratory, skin and soft tissue, bone, and invasive infections.

Advanced Pharmacotherapy III (PHP502)

This course focuses on providing patient-centered care to patients who have endocrine disorders or gender specific health-related needs. Learners will develop, integrate, and apply knowledge from the foundational disciplines (i.e., pharmaceutical, social/behavioral/administrative, and clinical sciences) and apply the Pharmacists' Patient Care Process for patients with these disorders.

Sterile Compounding & Parenteral nutrition (PHP503)

This course provides comprehensive application in sterile compounding techniques and the clinical application of parenteral nutrition (PN). It emphasizes aseptic technique, clean room protocols, and the preparation of sterile pharmaceutical products in compliance with current standards. Students will also gain skills in designing and monitoring individualized parenteral nutrition regimens.

Social Pharmacy and Public Health (PHP504)

The course aims to understand the local and global health challenges, examining the profound social determinants that shape public health and patient experiences. This course provides a comprehensive exploration of the principles and practice of public health, emphasizing the health of populations and the crucial pursuit of health equity within diverse groups. Students will learn methodological toolkits to investigate pressing public health issues and analyze medication use patterns. Ultimately, this course equips students with the skills to critically evaluate the safety and efficacy of medications within a broader public health context, paving the way for impactful practice.

Clinical Skills Lab (PHP505)

This lab-based course provides students with hands-on training in essential clinical skills. Students will develop proficiency in patient assessment, physical examination techniques, documenting patient care activities, medication administration, and basic point-of-care testing. Emphasis is placed on effective patient communication, interprofessional collaboration, and application of pharmaceutical knowledge in

simulated clinical settings. The course fosters critical thinking and prepares students for direct patient care roles.

Advanced Pharmacotherapy IV (PHP506)

This course provides an in-depth understanding of the clinical management of pulmonary and renal diseases from a pharmaceutical care perspective. Students will explore the pathophysiology, pharmacotherapy, and evidence-based treatment strategies for common and complex conditions affecting the respiratory and renal systems. Emphasis is placed on the clinical role of pharmacists in optimizing drug therapy, monitoring patient outcomes, managing drug related problems, and participating in multidisciplinary healthcare teams.

Advanced Pharmacotherapy V (PHP507)

This course provides an in-depth understanding of the clinical management of gastrointestinal, hepatobiliary, rheumatologic and central nervous system diseases from a pharmaceutical care perspective. Students will explore the pathophysiology, pharmacotherapy, and evidence-based treatment strategies for common and complex conditions affecting the gastrointestinal, hepatobiliary, rheumatologic and central nervous system. Emphasis is placed on the clinical role of pharmacists in optimizing drug therapy, monitoring patient outcomes, managing drug-related problems, and participating in multidisciplinary healthcare teams.

Directed Research (PHP508)

This course aims to impart an advanced level of research skills in clinical pharmacy, research new ideas, encourage and facilitate the development of advanced pharmacy services through primary research. Furthermore, the course will help equip pharmacists capable of conceiving, implementing, and communicating research on patient care services that promote the rational, safe, effective, and economical use of drug therapy.

Digital Pharmacy Systems and Telehealth (PHP509)

The purpose of this course is to explain the importance of informatics in delivering Pharmaceutical care. This course will introduce key issues & applications of Health Informatics at theoretical & applied levels. Students will explore the existing practices & recommend change based on evidence. Emphasis will be placed on current ethical, cultural, & financial issues accompanying the increasing use of the health-related Internet applications by healthcare providers, & consumers. This course will also emphasize on the use of social media as a way of delivering care and advise for patients with chronic diseases.

Continuing Professional Development (CPD) (PHP510)

This course introduces pharmacy students to the principles of Continuing Professional Development (CPD), fostering self-directed learning, professional growth, and reflective practice. Students will develop competencies in goal setting, communication, time management, leadership, and documentation of achievements. Through guided mentorship and the creation of professional portfolios, students will prepare to enter advanced pharmacy practice experiences with enhanced self-awareness, adaptability, and commitment to lifelong learning.

Quality Assurance and Patient Safety in Healthcare (PHP511)

This course is designed to provide an understanding of the principles of patient safety management, and develop a system patient service quality improvement in healthcare. It also discusses the basic strategies to deal with global public health threats for preventable patient harms, including medical errors and other healthcare-associated complications.

General Medicine I (PHP600)

This rotation provides students with clinical pharmacy practice experience in Internal Medicine wards covering cardiovascular, respiratory, endocrinology, gastrointestinal, and immune-related diseases. Students are expected to apply various proficiencies learned during their curriculum in order to achieve the goals. The tasks performed by the students include collecting patient-specific information, assessing drug therapy, recommending evidence-based pharmacotherapeutic regimens, monitoring drug therapy, educating patients and caregivers, and teamwork. The goals of the rotation will be achieved through a variety of ways including but not limited to team rounding, preceptor shadowing, written assignments, oral presentations, and other clinical pharmacy-related tasks assigned by the onsite preceptor.

Communicable Diseases (PHP601)

This rotation provides students with clinical pharmacy practice experience in dealing with patients suffering from infectious diseases. Students are expected to apply various proficiencies learned during their curriculum in order to achieve the goals. The tasks performed by the students include collecting patient-specific information, assessing drug therapy, interpreting culture sensitivity reports, recommending evidence-based pharmacotherapeutic regimens, monitoring drug therapy, educating patients and caregivers, and team work.

Paediatrics (PHP602)

This rotation provides students with clinical pharmacy practice experience in pediatric patient care. Students apply pharmacokinetic principles in dosage adjustment in pediatrics and choose patient specific pediatric formulations. Students are expected to apply various proficiencies learned during their curriculum in order to achieve the goals.

The tasks performed by the students include collecting patient-specific information, assessing drug therapy, recommending evidence-based pharmacotherapeutic regimens, monitoring drug therapy, educating patients and caregivers, and teamwork. The goals of the rotation will be achieved through a variety of ways including but not limited to team rounding, preceptor shadowing, written assignments, oral presentations, and other clinical pharmacy-related tasks assigned by the onsite preceptor.

Ambulatory Care (PHP603)

This rotation provides students with clinical pharmacy practice experience in outpatient settings. Students are expected to apply various proficiencies learned during their curriculum in order to achieve the goals. The tasks performed by the students include collecting patient-specific information, assessing drug therapy, recommending evidence-based pharmacotherapeutic regimens, monitoring drug therapy, educating patients and caregivers, and teamwork.

Emergency Care (PHP604)

This rotation provides students with clinical pharmacy practice experience in dealing with critically ill patients admitted to intensive care units. Students are expected to apply various proficiencies learned during their curriculum to achieve the goals. The tasks performed by the students include collecting patient-specific information, assessing drug therapy, recommending evidence-based pharmacotherapeutic regimens, monitoring drug therapy, educating patients and caregivers, and teamwork. The goals of the rotation will be achieved through a variety of ways including but not limited to team rounding, preceptor shadowing, written assignments, oral presentations, and other clinical pharmacy-related tasks assigned by the onsite preceptor.

Drug information (PHP608)

This rotation provides students with clinical pharmacy practice experience in handling drug information services. Students are expected to apply various proficiencies learned during their curriculum in order to achieve the goals. The tasks performed by the students include collecting patient-specific information, assessing drug therapy, recommending evidence-based pharmacotherapeutic regimens, monitoring drug therapy, educating patients and caregivers, and interprofessional collaboration.

Community Healthcare (PHP606)

This rotation provides students with practice experience in managing a community pharmacy. Students are expected to apply various proficiencies learned during their curriculum in order to achieve the goals. The tasks performed by the students include collecting patient-specific information, assessing drug therapy, recommending evidence-based over-the-counter treatments, monitoring drug therapy, educating patients and caregivers, and interprofessional collaboration.

B. Elective Rotation (PHA6xxx)

Nephrology (PHP605)

This rotation provides students with clinical pharmacy practice experience in nephrology units (both inpatients and out patients). Students are expected to apply various proficiencies learned during their curriculum in order to achieve the goals. The tasks performed by the students include collecting patient-specific information, assessing drug therapy, dosage adjustments in renal impaired patients, recommending evidence-based pharmacotherapeutic regimens, monitoring drug therapy, educating patients and caregivers, and teamwork.

Pharmacy administration (PHP607)

This rotation provides students with managerial and administrative experience in hospital pharmacy. Students are expected to apply various proficiencies learned during their curriculum in order to achieve the goals of the rotation. The course will cover areas related to human resource management, medicine procurement, inventory management, health promotion services, dealing with business challenges and communicating effectively with the healthcare team.

Cardiology (PHP609)

This rotation provides students with clinical pharmacy practice experience in dealing with patients suffering from cardiac diseases. Students are expected to apply various proficiencies learned during their curriculum in order to achieve the goals. The tasks performed by the students include collecting patient-specific information, assessing drug therapy, recommending evidence-based pharmacotherapeutic regimens, monitoring drug therapy, educating patients and caregivers, and teamwork.

Oncology (PHP610)

This rotation provides students with clinical pharmacy practice experience in dealing with patients suffering from different types of cancers. Students are expected to apply various proficiencies learned during their curriculum in order to achieve the goals. The tasks performed by the students include collecting patient specific information, assessing drug therapy, pain management, recommending evidence-based pharmacotherapeutic regimens, monitoring drug therapy, educating patients and caregivers, and teamwork.

Pain management (PHP611)

This rotation provides students with clinical pharmacy practice experience in dealing with patients suffering from pain conditions. Students are expected to apply various proficiencies learned during their curriculum in order to achieve the goals. The tasks performed by the students include collecting patient-specific information, assessing drug therapy, recommending evidence-based pharmacotherapeutic regimens, monitoring drug therapy, educating patients and caregivers, and teamwork.

Surgery (PHP612)

This rotation provides students with clinical pharmacy practice experience in Surgery wards covering antibiotic selection, post-surgical pain management and nutritional support. Students are expected to apply various proficiencies learned during their curriculum in order to achieve the goals. The tasks performed by the students include collecting patient-specific information, assessing drug therapy, recommending evidence based pharmacotherapeutic regimens, monitoring drug therapy, educating patients and caregivers, and teamwork.