



جامعة الإمام عبد الرحمن بن فيصل

IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

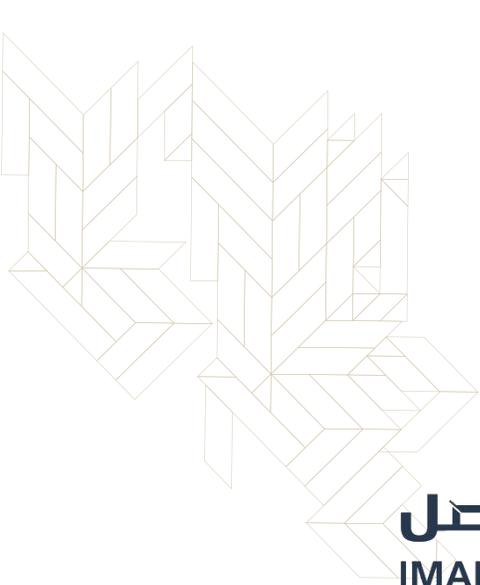
كلية الصيدلة | College of Pharmacy

College of Pharmacy Catalog

2025



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Message from the Dean

Dear Students, Faculty, Alumni, and Friends,

It is my pleasure to welcome you to the College of Pharmacy. Our college has a proud tradition of preparing highly skilled, compassionate, and innovative pharmacists and pharmaceutical scientists who are dedicated to improving health and advancing patient care. In today's rapidly evolving healthcare landscape, pharmacists play a vital role as accessible healthcare providers, medication experts, and leaders in interprofessional teams. At our College of Pharmacy, we are committed to providing a rigorous education that integrates foundational sciences with clinical training, research opportunities, and community engagement.



Our distinguished faculty bring not only academic expertise but also real-world experience, ensuring that our students are prepared to meet the challenges of modern healthcare. We also take pride in enhancing a supportive environment where every student is encouraged to grow, collaborate, and pursue excellence.

As you explore this catalog, you will find information about our academic programs, experiential learning opportunities, research initiatives, and student support services. I encourage you to see this not only as a guide to requirements and courses, but also as a reflection of the values and aspirations of our college community.

We are excited about the future of pharmacy and invite you to join us in shaping it. Together, we can advance the profession, improve patient outcomes, and contribute to healthier communities.

With best regards,

Abdulmalik Alqarni, Associate Professor

Dean, College of Pharmacy

History

The College of Pharmacy (COP) at Imam Abdulrahman bin Faisal University is a forward-looking academic institution dedicated to excellence in pharmaceutical education, research, and community engagement. Originally established by Royal Decree on July 8, 2011, the College began its journey as the College of Clinical Pharmacy, launching its flagship Doctor of Pharmacy (PharmD) program in 2012/2013 academic year. The College proudly celebrated the graduation of its first cohort in May 2017. In 2025, following extensive consultation with internal and external stakeholders, the College was renamed the College of Pharmacy (COP). This strategic rebranding reflects the College's expanding academic scope, its commitment to international standards, and its readiness to introduce diverse pharmaceutical programs beyond clinical training.

As part of its strategic growth, the College will launch its first postgraduate offering, the Master of Integrative Pharmaceutical Sciences, in Fall 2025. This innovative program is designed to bridge the gap between scientific research and applied pharmaceutical practice, preparing graduates for impactful roles in drug development, regulatory sciences, and interdisciplinary research.

Through academic excellence, innovative research, and community partnerships, the College of Pharmacy continues to position itself as a national leader in advancing pharmacy education and contributing meaningfully to the healthcare sector in Saudi Arabia and beyond.

College Vision, Mission and Values

Vision: A leading college in pharmacy education, transformative healthcare, community service, and innovative research.

Mission: To advance the pharmacy profession through innovative teaching, impactful research, inter-professional collaboration, partnerships, and community engagement in a sustainable environment.

Values: Equality, professional, excellence, teamwork, diversity, creativity & innovation, life-long learning, social responsibility.

Accreditation status

The PharmD program at COP is fully accredited by the National Center for Academic Accreditation and Evaluation (NCAAA) through April 2028, highlighting the College's commitment to quality, continuous improvement, and alignment with national academic standards.

Note: *For detailed information on faculty policies, student rights and responsibilities, and administrative procedures, please refer to the Faculty Handbook, Student Handbook, and the Policy & Procedure Manual.*

Programs of study

Overview of PharmD program

The PharmD Program is a full-time six-year (06) undergraduate pharmacy program, offered by the College of Pharmacy with the assistance of, College of Medicine, Deanship of Preparatory and Support Studies and other Deanships. The program is delivered through a semester-based schedule with a total of 182 credit hours and follows an integrated curriculum that connects theoretical knowledge with practical applications in a medium of English language instruction for best learning experience. It includes one preparatory year at the deanship of Preparatory Studies followed by four years that comprise full theoretical courses, theoretical courses with practical components, and full practical courses at the College of Pharmacy and ends with a six year of field training (internship) at various hospital, community pharmacy, academic, and industrial sites.

PharmD program Vision, Mission and Values

Vision: A PharmD program distinguished for its excellence in teaching and learning, research and community engagement through innovation and collaboration.

Mission: To graduate Pharmacists competent in serving the profession in all sectors, providing collaborative patient-centered care, and conducting quality research to promote the health and wellbeing of the public.

Values: Professionalism, accountability, Partnership working & collaboration, integrity, leadership, empathy, Distinction, Social responsibility.

PharmD Program Learning Outcomes

Knowledge and understanding	
K1	Describe fundamental scientific knowledge and principles within the scope of the evolving pharmacy profession for prevention and treatment.
K2	Demonstrate advanced knowledge of recent advancements in basic and clinical sciences and the expanding role of pharmacists in healthcare delivery systems.
Skills	
S1	Integrate basic and clinical pharmaceutical sciences for application in industry, regulatory, pharmacy practice settings and research.
S2	Evaluate scientific and professional literature critically to inform evidence-based practice decisions, design and conduct research, and solve complex problems effectively.
S3	Design and deliver an evidence-based patient-therapeutic plan with an interprofessional approach.
S4	Communicate effectively with patients and health care professionals within various educational and professional situations
S5	Apply mathematical, problem-solving skills, and information technology skills in different pharmaceutical sectors.
S6	Demonstrate proficiency in compounding, dispensing, drug development, analysis, and quality control through effective execution of various complex practical activities.

Values, Autonomy, and Responsibility

V1	Adhere to professional, ethical and legal standards.
V2	Demonstrate leadership, management, team-work skills, the potential for entrepreneurship and continuous self-development and learning in various settings.
V3	Advocate patient rights to safe and effective medication use in various settings.

PharmD Program Competencies

Competency	Description
1. Learner	Develop, integrate, and apply knowledge from the foundational sciences (i.e., pharmaceutical, social/behavioral/administrative, and clinical sciences) to evaluate the scientific literature, explain drug action, solve therapeutic problems, and advance population health and patient-centered care.
2. Caregiver	Provide patient-centered care as the medication expert (Collect and interpret evidence, prioritize, formulate assessments and recommendations, implement, monitor and adjust plans, and document activities).
3. Manager	Manage patient healthcare needs using human, financial, technological, and physical resources to optimize the safety and efficacy of medication use systems.
4. Promoter	Design prevention, intervention, and educational strategies for individuals and communities to manage chronic disease and improve health and wellness.
5. Problem Solver	Identify problems; explore and prioritize potential strategies; and design, implement, and evaluate a viable solution.
6. Advocate	Assure that patients' best interests are represented.
7. Collaborator	Actively participate and engage as a healthcare team member by demonstrating mutual respect, understanding, and values to meet patient care needs.
8. Communicator	Effectively communicate verbally and nonverbally when interacting with an individual, group, or organization.
9. Self-aware	Examine and reflect on personal knowledge, skills, abilities, beliefs, biases, motivation, and emotions that could enhance or limit personal and professional growth.
10. Leader	Demonstrate responsibility for creating and achieving shared goals, regardless of position.
11. Innovator	Engage in innovative activities by using creative thinking to envision better ways of accomplishing professional goals.
12. Professional	Exhibit behaviors and values that are consistent with the trust given to the profession by patients, other healthcare providers, and society.

PharmD program Study Plan

Year 1 (Preparatory Year)

Level 1											
#	Course Code	Course Title	اسم المقرر	Credit Units	Credit Units			Contact Hours			Prerequisites
					Theory	Lab/Practical	Clinic, Field ...	Theory	Lab/Practical	Clinic, Field ...	Course Code
1	ENGL 101	General English Language 1	اللغة الإنجليزية العامة 1	4	0	4	0	0	16	0	
2	BIOL 105	Biology 1	1أحياء	3	2	1	0	2	2	0	
3	PHYS 106	Physics	فيزياء	3	2	1	0	2	2	0	
4	COMP 107	Computer Skills	مهارات الحاسب الآلي	3	2	1	0	2	2	0	
5	ISLM 181	Creed and Family in Islam	العقيدة والأسرة في الإسلام	2	2	0	0	2	0	0	
Total				15	8	7	0	8	22	0	
Grand Total					15			30			
Total no. of courses having applied (partial/full) component (practical/lab/clinic/field etc.):										4	

Level 2											
#	Course Code	Course Title	اسم المقرر	Credit Units	Credit Units			Contact Hours			Prerequisites
					Theory	Lab/Practical	Clinic, Field ...	Theory	Lab/Practical	Clinic, Field ...	Course Code
1	ENGL 102	General English Language 2	اللغة الإنجليزية العامة 2	3	0	3	0	0	10	0	ENGL 101
2	ENGL 103	English for Academic and Specific Purpose	اللغة الإنجليزية للأغراض الأكاديمية والتخصصية	3	0	3	0	0	6	0	
3	BIOL 108	Biology 2	2أحياء	3	2	1	0	2	2	0	
4	CHEM 109	Chemistry	كيمياء	3	2	1	0	2	2	0	
5	LRSK 104	Learning & communication Skills	مهارات التعلم والاتصال	2	2	0	0	2	0	0	
6	ARAB 182	Arabic Language Skills	مهارات اللغة العربية	2	2	0	0	2	0	0	
Total				16	8	8	0	8	20	0	
Grand Total					16			28			
Total no. of courses having applied (partial/full) component (practical/lab/clinic/field etc.):										4	

Year 2

Level 3											
#	Course Code	Course Title	اسم المقرر	Credit Units	Credit Units			Contact Hours			Prerequisites
					Theory	Lab/Practical	Clinic, Field ...	Theory	Lab/Practical	Clinic, Field ...	Course Code
1	PHCH 201	Pharmaceutical organic chemistry 1	الكيمياء العضوية الصيدلانية 1	3	2	1	0	2	3	0	
2	PHCY 202	Foundation of health care and pharmacy practice	أسس الرعاية الصحية وممارسة الصيدلانية	2	2	0	0	2	0	0	
3	ANAT 203	Anatomy and histology	علم التشريح والأنسجة	3	2	1	0	2	3	0	
4	BIOCH 204	Biochemistry 1	الكيمياء الحيوية 1	2	2	0	0	2	0	0	
5	PHYL 205	Physiology 1	علم وظائف الأعضاء 1	2	2	0	0	2	0	0	
6	PHCT 206	Physical pharmacy	الصيدلة الفيزيائية	3	2	1	0	2	3	0	
7	HIST 281	History and civilization of KSA	تاريخ وحضارة المملكة	2	2	0	0	2	0	0	
Total				17	14	3	0	14	9	0	
Grand Total					17			23			
Total no. of courses having applied (partial/full) component (practical/lab/clinic/field etc.):										3	

Level 4											
#	Course Code	Course Title	اسم المقرر	Credit Units	Credit Units			Contact Hours			Prerequisites
					Theory	Lab/Practical	Clinic, Field ...	Theory	Lab/Practical	Clinic, Field ...	Course Code
1	PHYL 208	Physiology 2	علم وظائف الأعضاء 2	2	2	0	0	2	0	0	PHYL 205
2	BIOCH 209	Biochemistry 2	الكيمياء الحيوية 2	2	2	0	0	2	0	0	BIOCH 204
3	PHCT 210	Pharmaceutical calculations	الحسابات الصيدلانية	2	1	1	0	1	2	0	
4	PHCH 211	Pharmaceutical Analytical Chemistry	الكيمياء التحليلية الصيدلانية	3	2	1	0	2	3	0	
5	PHCT 212	Pharmaceutics 1	صيدلانيات 1	3	2	1	0	2	3	0	
6	PHCH 213	Pharmaceutical organic chemistry 2	الكيمياء العضوية الصيدلانية 2	2	2	0	0	2	0	0	PHCH 201
7	NAPT 214	Fundamentals of natural products	أساسيات النواتج الطبيعية	3	2	1	0	2	3	0	
8	ISLAM 282	Islamic ethics and values	الأخلاق والقيم في الإسلام	2	2	0	0	2	0	0	
Total				19	15	4	0	15	11	0	
Grand Total					19			26			
Total no. of courses having applied (partial/full) component (practical/lab/clinic/field etc.):										4	

Year 3

Level 5											
#	Course Code	Course Title	اسم المقرر	Credit Units	Credit Units			Contact Hours			Prerequisites
					Theory	Lab/Practical	Clinic, Field ...	Theory	Lab/Practical	Clinic, Field ...	Course Code
1	PHCT 301	Pharmaceutics 2	صيدلانيات 2	2	2	0	0	2	0	0	PHCT 212
2	PHCY 302	Pharmacy ethics, Law and regulation	اخلاقيات وقانون ولوائح الصيدلة	2	2	0	0	2	0	0	
3	NUTR 303	Clinical nutrition and dietary supplements	التغذية العلاجية والمكملات الغذائية	3	3	0	0	3	0	0	
4	STAT 304	Biostatistics	الإحصاء الحيوي	1	0	1	0	0	2	0	
5	MICRO 305	Microbiology	علم الأحياء الدقيقة	3	2	1	0	2	3	0	
6	NAPT 306	Complementary and Integrative Medicine	الطب التكميلي والتكاملي	2	2	0	0	2	0	0	NAPT 214
7	RESM 307	Pharmacoepidemiology and research methods	علم وبائيات الدواء ومنهجية البحث	3	3	0	0	3	0	0	
8	BUS 381	Entrepreneurship	ريادة الأعمال	2	2	0	0	2	0	0	
Total				18	16	2	0	16	5	0	
Grand Total					18			21			
Total no. of courses having applied (partial/full) component (practical/lab/clinic/field etc.):										2	

Level 6											
#	Course Code	Course Title	اسم المقرر	Credit Units	Credit Units			Contact Hours			Prerequisites
					Theory	Lab/Practical	Clinic, Field ...	Theory	Lab/Practical	Clinic, Field ...	Course Code
1	PHBT 309	Pharmaceutical biotechnology	التقنية الحيوية الصيدلانية	2	2	0	0	2	0	0	
2	CLPH 310	Community pharmacy and self-care	صيدلية المجتمع والعناية الذاتية	2	2	0	0	2	0	0	
3	PHARM 311	Introduction to pharmacology	مقدمة في علم الأدوية	3	2	1	0	2	3	0	
4	PHCH 312	Principles of drug action	مبادئ عمل الدواء	2	2	0	0	2	0	0	PHCH 213
5	PATH 313	Pathophysiology	علم فسيولوجيا الأمراض	2	2	0	0	2	0	0	PHYL 208
6	PHCT 314	Drug delivery systems	أنظمة توصيل الدواء	2	2	0	0	2	0	0	
7	CLPH 315	Evidence-based practice and Drug information	الممارسة القائمة على الأدلة ومعلومات الأدوية	2	1	1	0	1	2	0	
8	IMMUN 316	Immunology	علم المناعة	2	2	0	0	2	0	0	
Total				17	15	2	0	15	5	0	
Grand Total					17			20			
Total no. of courses having applied (partial/full) component (practical/lab/clinic/field etc.):										0	

Summer semester						
#	Course Code	Course Title	اسم المقرر	Clinic, Field...		Prerequisites
				Credit Units	Contact Hours	Course Code
1	CLPH 333	Introductory Pharmacy Practice Experience 1	التدريب الصيدلي الميداني التمهيدي 1	2	40	CLPH 310

Year 4

Level 7											
#	Course Code	Course Title	اسم المقرر	Credit Units	Credit Units			Contact Hours			Prerequisites
					Theory	Lab/Practical	Clinic, Field ...	Theory	Lab/Practical	Clinic, Field ...	Course Code
1	PHCH 401	Medicinal chemistry 1	الكيمياء الدوائية 1	3	3	0	0	3	0	0	PHCH 312
2	PHARM 402	Pharmacology 1	علم الأدوية 1	3	3	0	0	3	0	0	PHARM 311
3	CLPH 403	Patient care skills 1	مهارات رعاية المرضى 1	2	1	0	1	1	0	3	
4	CLPH 404	Pharmacotherapy 1	العلاج الدوائي 1	5	4	0	1	4	0	3	PHARM 311 PATH 313
5	PHCH 405	Instrumental analysis	التحليل الآلي	3	2	1	0	2	3	0	PHCH 211
6	PHCT 406	Biopharmaceutics and pharmacokinetics	الصيدلة الحيوية وحركية الدواء	2	2	0	0	2	0	0	PHCT 206
Total				18	15	1	2	15	3	6	
Grand Total					18			24			
Total no. of courses having applied (partial/full) component (practical/lab/clinic/field etc.):										3	

Level 8											
#	Course Code	Course Title	اسم المقرر	Credit Units	Credit Units			Contact Hours			Prerequisites
					Theory	Lab/Practical	Clinic, Field ...	Theory	Lab/Practical	Clinic, Field ...	Course Code
1	PHCH 407	Medicinal chemistry 2	الكيمياء الدوائية 2	3	3	0	0	3	0	0	PHCH 312
2	PHARM 408	Pharmacology 2	علم الأدوية 2	2	2	0	0	2	0	0	PHARM 311
3	CLPH 409	Patient care skills 2	مهارات رعاية المرضى 2	2	1	0	1	1	0	3	
4	CLPH 410	Pharmacotherapy 2	العلاج الدوائي 2	5	4	0	1	4	0	3	PHARM 311 PATH 313
5	CLPH 411	Patient safety and informatics	سلامة المرضى و المعلوماتية	3	3	0	0	3	0	0	
6	CLPH 412	Clinical pharmacokinetics	حركية الدواء السريرية	2	1	1	0	1	3	0	PHCT 406
7		Elective course 1	1 مقرر اختياري	2	2	0	0	2	0	0	
Total				19	16	3	0	16	3	6	
Grand Total					19			25			
Total no. of courses having applied (partial/full) component (practical/lab/clinic/field etc.):										3	

Summer semester						
#	Course Code	Course Title	اسم المقرر	Clinic, Field...		Prerequisites
				Credit Units	Contact Hours	Course Code
1	CLPH 444	Introductory Pharmacy Practice Experience 2	التدريب الصيدلي الميداني التمهيدي 2	2	40	PHCH 401 PHARM 402 CLPH 403 CLPH 404

Year 5

Level 9											
#	Course Code	Course Title	اسم المقرر	Credit Units	Credit Units			Contact Hours			Prerequisites
					Theory	Lab/Practical	Clinic, Field ...	Theory	Lab/Practical	Clinic, Field ...	Course Code
1	PHCH 501	Medicinal chemistry 3	الكيمياء الدوائية 3	2	2	0	0	2	0	0	PHCH 312
2	PHARM 502	Pharmacology 3	علم الأدوية 3	2	2	0	0	2	0	0	PHARM 311
3	CLPH 503	Pharmacotherapy 3	العلاج الدوائي 3	5	4	0	1	4	0	3	PHARM 311 PATH 313
4	CLPH 504	Patient care skills 3	مهارات رعاية المرضى 3	2	1	0	1	1	0	3	CLPH 404 & CLPH 410
5	PHCT 505	Industrial pharmacy	الصيدلة الصناعية	2	2	0	0	2	0	0	

6	PHCY 506	Pharmaceutical economics and policies	اقتصاديات وسياسات صيدلانية	2	2	0	0	2	0	0	
7	PHCY 507	Graduation project	مشروع التخرج	IP	0	0	3	0	0	9	RESM 307
8	MGM T 508	Pharmacy management and leadership	الإدارة والقيادة في الصيدلة	2	2	0	0	2	0	0	
9		Elective course 2	2 مقرر اختياري	2	2	0	0	2	0	0	
Total				19	17	0	5	17	0	15	
Grand Total					19			32			
Total no. of courses having applied (partial/full) component (practical/lab/clinic/field etc.):										3	

Level 10											
#	Course Code	Course Title	اسم المقرر	Credit Units	Credit Units			Contact Hours			Prerequisites
					Theory	Lab/Practical	Clinic, Field ...	Theory	Lab/Practical	Clinic, Field ...	Course Code
1	CLPH 510	Pharmacotherapy 4	العلاج الدوائي 4	5	4	0	1	4	0	3	PHARM 311 & PATH 313
2	PHCH 511	Medicinal chemistry 4	الكيمياء الدوائية 4	1	1	0	0	1	0	0	PHCH 312
3	PHARM 512	Pharmacology 4	علم الأدوية 4	1	1	0	0	1	0	0	PHARM 311
4	CLPH 513	Advanced patient care	رعاية المرضى المتقدمة	1	0	0	1	0	0	3	CLPH 404 & CLPH 410 &

											CLPH 503
5	PHTX 514	Clinical toxicology	علم السموم السريري	2	2	0	0	2	0	0	PHARM 502
6	BUS 515	Pharmaceutical marketing and business	الأعمال والتسويق في الصيدلة	2	2	0	0	2	0	0	
7	CLPH 516	Total parenteral nutrition (TPN)	التغذية الوريدية الكاملة	2	2	0	0	2	0	0	NUTR 303
8	PHCY 507	Graduation project	مشروع التخرج	6	0	0	3	0	0	9	RESM 307
Total				20	12	0	5	12	0	15	
Grand Total				20			27				
Total no. of courses having applied (partial/full) component (practical/lab/clinic/field etc.):										3	

Year 6 (Internship)

List of Advanced pharmacy practice experience (APPE):

#	Rotations	اسم الدورة	No. of weeks	APPE Core or Elective
1	Community Pharmacy	صيدلية المجتمع	4	Core
2	Ambulatory Patient Care / Outpatient Pharmacy	رعاية مرضى العيادات الخارجية / الصيدلية الخارجية	4	Core
3	In-Patient Pharmacy	الصيدلية الداخلية	4	Core
4	Internal Medicine	الطب الباطني	4	Core
5	Critical Care	العناية الحرجة	4	Elective
6	Nephrology	أمراض الكلى	4	Elective
7	Solid Organ Transplant	زراعة الأعضاء	4	Elective
8	Oncology/Hematology	الأورام / أمراض الدم	4	Elective

9	Pediatrics	طب الأطفال	4	Elective
10	Pediatrics Critical Care	العناية الحرجة للأطفال	4	Elective
11	Neonates	حديثي الولادة	4	Elective
12	Infectious Diseases	الأمراض المعدية	4	Elective
13	Cardiology	أمراض القلب	4	Elective
14	Parenteral Nutrition	التغذية الوريدية	4	Elective
15	Psychiatry	الطب النفسي	4	Elective
16	Saudi Food and Drug Authority	الهيئة العامة للغذاء والدواء	4	Elective
17	Pharmacy Administration	الإدارة الصيدلية	4	Elective
18	Drug Information Center	مركز معلومات الأدوية	4	Elective
19	Toxicology and Poison Control	السموم	4	Elective
20	Pharmaceutical Manufacturing	التصنيع الدوائي	4	Elective
21	Drug Company	شركة الأدوية	4	Elective
22	Medication Safety	سلامة الدواء	4	Elective
23	Quality Assurance	ضمان الجودة	4	Elective
24	Academia	الأكاديمية	4	Elective
25	Health Informatics	المعلوماتية الصحية	4	Elective
26	Pharmacoeconomics and Formulary Management	اقتصاديات الدواء	4	Elective

* **Mandatory rotations (4 rotations – 16 weeks)**

** **Elective rotations (7 rotations– 28 weeks)**

• Elective Courses 1

#	Course Code	Course Title	اسم المقرر	Credit Units	Level	Credit Units			Contact Hours			Prerequisites
						Theory	Lab/Practical	Clinic, Field ...	Theory	Lab/Practical	Clinic, Field ...	Course Code
1	PHCH 451	Computer Aided Drug Design	تصميم الدواء بمساعدة الحاسوب	2	8	2	0	0	2	0	0	PHCH 312
2	PHCT 452	Cosmetic Formulations	صيغة مستحضرات التجميل	2	8	2	0	0	2	0	0	
3	NAPT 453	Natural Cosmeceuticals	مستحضرات التجميل الدوائية الطبيعية	2	8	2	0	0	2	0	0	
4	PHCY 454	Foundation of Clinical Trials	أسس التجارب السريرية	2	8	2	0	0	2	0	0	
5	PHCH 455	Drug Discovery	استكشاف الدواء	2	8	2	0	0	2	0	0	

• Elective Courses 2

#	Course Code	Course Title	اسم المقرر	Credit Units	Level	Credit Units			Contact Hours			Prerequisites
						Theory	Lab/Practical	Clinic, Field ...	Theory	Lab/Practical	Clinic, Field ...	Course Code
1	PHCY 551	Social and Behavioral Pharmacy	الصيدلة الاجتماعية والسلوكية	2	9	2	0	0	2	0	0	
2	NAPT 552	Poisonous and Abused Natural Products	النواتج الطبيعية السامة والمساء استخدامها	2	9	2	0	0	2	0	0	
3	PHCT 553	Pharmaceutical Quality Control	رقابة الجودة الصيدلانية	2	9	2	0	0	2	0	0	PHCH 405

4	MED 554	Precision Medicine	الطب الدقيق	2	9	2	0	0	2	0	0	PHARM 311
5	PHCT 556	Good Manufacturing Practice	الممارسة الجيدة في التصنيع	2	9	2	0	0	2	0	0	

**Include elective courses in separate tables as groups Elective 1, Elective 2. (if needed)*

The PharmD curriculum integrates didactic coursework with experiential learning, delivered through:

Introductory Pharmacy Practice Experiences (IPPE): Early exposure to pharmacy practice in community and hospital settings, designed to develop foundational skills in patient interaction, dispensing, and professional behaviour.

Advanced Pharmacy Practice Experiences (APPE): A series of structured rotations during the final year of study, including core rotations (community pharmacy, ambulatory care, inpatient pharmacy, and internal medicine) and electives (e.g., critical care, oncology, paediatrics, infectious diseases, regulatory affairs, industry, and academia). These provide direct patient care opportunities and prepare students for diverse pharmacy career paths.

Note: Refer to the Experiential Education Manual for detailed policies and procedures.

Course Descriptions

Year 2: First Semester (Semester 3) courses

Course code: PHCH 201

Course title: Pharmaceutical Organic Chemistry 1

Credit hours: 3

Prerequisites: -

Brief description: This course covers the fundamental concepts of saturated hydrocarbons, substituted hydrocarbons, and their chemistry, with a focus on their importance and applications in the pharmaceutical industry. Topics covered include acid-base theories, nomenclature, synthesis, properties, and the pharmaceutical significance of alkanes, alkyl halides, alcohols, ethers, epoxides, phenols, and sulfides. The course will also cover bonding and structural isomerism, stereochemistry, and their biological applications.

Course code: PHCY 202

Course title: Foundation of health care and pharmacy practice

Credit hours: 2

Prerequisites: -

Brief description: This course provides a comprehensive overview of pharmacy and its education process as well as its subjects from admissions to advanced training. In addition, students will explore the various aspects of the Saudi Arabian healthcare system, including its organization, structure, financing mechanisms, delivery models, and regulatory frameworks.

Course code: ANAT 203

Course title: Anatomy and Histology

Credit hours: 3

Prerequisites: -

Description: This foundational course provides students with a solid understanding of essential anatomical terminology and concepts, which are critical for a comprehensive grasp of body systems morphology. It also imparts core knowledge of human anatomy at both the gross and microscopic levels, offering a wide-ranging overview of body structures. It also introduces the fundamentals of neuroanatomy by outlining the structure of the nervous system, alongside embryology to provide insights into human development. The theoretical knowledge acquired in this course is complemented by practical application. A variety of educational activities are utilized to bridge the

gap between theory and practice, which is vital for the effective application of anatomical principles within the realm of clinical pharmacy.

Course code: BIOCH 204

Course title: Biochemistry 1

Credit hours: 2

Prerequisites: -

Description: The course covers the fundamental concept of biochemistry and application of biochemistry in human life with focusing on the chemistry of carbohydrate, amino acids, protein, lipids, nucleic acids, vitamins, as well as enzyme and enzyme regulations.

Course code: PHYL 205

Course title: PHYSIOLOGY1

Credit hours: 2

Prerequisites: -

Description: The Physiology 1 course provides students with a comprehensive understanding of the normal functions of the human body and its underlying mechanism. The basic aim is to highlight the relationship between systems and how they help to maintain the functioning of the whole body. Special emphasis is laid on homeostasis and the control systems that maintain it.

Course code: PHCT 206

Course title: Physical pharmacy

Credit hours: 3

Prerequisites: -

Description: This course offers students a comprehensive understanding of the fundamental concepts and theories in physical pharmacy. Throughout the course, students will develop a solid foundation in the principles of physical pharmacy that are essential for the design and development of pharmaceutical products. The course covers a wide range of topics, including thermodynamics, molecular interactions, solubility, states of matter, surface phenomena, chemical stability and kinetics, and rheology. Students will learn how these principles apply to the formulation, manufacturing, and stability of pharmaceutical products. The course utilizes a combination of lectures and laboratory experiments to enhance students' understanding of theoretical concepts and their practical applications. Through hands-on experiments, students will gain valuable experience in measuring and analyzing physical properties of pharmaceutical substances. By the end of the course, students will

possess the knowledge and skills necessary to comprehend and apply the physical and chemical principles underlying the development and performance of pharmaceutical products.

Course code: HIST 281

Course title: History and Civilization of KSA

Credit hours: 2

Prerequisites: -

Description يحتوي المقرر على استعراض الجوانب التاريخية والحضارية للمملكة العربية السعودية وإرثها الثقافي، وجهود حكامها في بناء الدولة السياسي والحضاري ودورهم في خدمة القضايا العربية والإسلامية والإنسانية، وتحقيق رؤية 2030 في مجال السياحة والتراث الوطني .

Year 2: Second Semester (Semester 4)

Course code: PHYL 208

Course title: PHYSIOLOGY 2

Credit hours: 2

Prerequisites: PHYL 205

Description: The Physiology 2 course provides students with a comprehensive understanding of the normal functions of the human body and underlying mechanism. Basic aim is to highlight the relationship between systems and how they help to maintain the functioning of the whole body. Special emphasis is laid on homeostasis and the control systems that maintain it.

Course code: BIOCH 209

Course title: Biochemistry 2

Credit hours: 2

Prerequisites: BIOCH 204

Description: The course covers the metabolic pathways and regulations of carbohydrates, amino acids, proteins, nucleic acids, lipids, steroids, heme, xenobiotics, free radicals, and antioxidants and their implications in human diseases.

Course code: PHCT 210

Course title: Pharmaceutical calculations

Credit hours: 2

Prerequisites: -

Description: The Pharmaceutical Calculation course aims to equip students with a fundamental understanding of calculations relevant to pharmacy practice. Students will develop the necessary skills to effectively handle various types of calculations commonly encountered in the field. This includes calculations involving concentration expressions, density, and specific gravity, as well as the ability to manipulate and modify formulas to achieve desired results. Additionally, students will learn essential skills to accurately solve a diverse range of pharmaceutical calculation problems. By acquiring proficiency in pharmaceutical calculations, students can significantly reduce dispensing errors and contribute to improved patient outcomes. The course emphasizes the importance of precision and accuracy in calculations, providing students with the knowledge and tools necessary for successful pharmaceutical practice.

Course code: PHCH 211

Course title: Pharmaceutical Analytical Chemistry

Credit hours: 3

Prerequisites: -

Description: This course provides students with a comprehensive understanding of analytical chemistry principles and their application in the pharmaceutical industry. It covers topics such as controlling error sources and implementing effective error control strategies. Students will learn to analyze measurement uncertainty and employ statistical methods for data analysis. The course emphasizes expressing drug and impurity concentrations using various units, including molarity, mass fraction, and percentage. Additionally, students will gain insights into chemical equilibrium's significance regarding drug stability and solubility. Volumetric techniques in pharmaceutical analysis will be explored, with hands-on training in designing and executing analytical methods like volumetric titration. Spectroscopic instrumental techniques will also be covered, with hands-on practice using the spectrophotometer and Excel spreadsheets to develop calibration curves and calculate drug concentration in pharmaceutical preparations.

Course code: PHCT 212

Course title: Pharmaceutics 1

Credit hours: 3

Prerequisites: -

Description: This course is designed mainly to provide pharmaceutics lessons concerning the preparation and evaluation of various pharmaceutical dosage forms. This course forms the foundation of therapeutics, as no drug can be administered to patients without an appropriate dosage form and different dosage forms can result in different pharmacokinetics and therapeutic outcomes.

Additionally, it will equip students with fundamental knowledge about the design of pharmaceutical dosage forms, which will be useful in their studies on pharmacokinetics and pharmacotherapeutics

Course code: PHCH 213

Course title: Pharmaceutical Organic Chemistry-2

Credit hours: 2

Prerequisites: PHCH 201

Description: The Pharmaceutical Organic Chemistry-2 course is designed to provide students with a fundamental understanding of the basic chemical structures of various categories of organic compounds. The course aims to teach students to identify these structures and describe the different functional groups, including their structures, chemical reactions, and biological importance. Additionally, the course aims to demonstrate the relationships between the chemistry of organic compounds and their pharmaceutical and medicinal applications, providing students with a greater understanding of the practical applications of organic chemistry. Finally, students will learn to analyze chemical reactions, including predicting starting materials, final products, and their mechanisms. Overall, the course aims to provide students with a comprehensive understanding of the principles of organic chemistry and their practical applications in the real world.

Course code: NAPT-214

Course title: Fundamentals of Natural Products

Credit hours: 3

Prerequisites: -

Description: This course describes the natural sources of drugs (plants, animals, microbes, minerals etc.), main active constituents, therapeutic uses, possible side effects of the primary metabolites (CHO, Lipids, Waxes) and secondary metabolites (alkaloids, glycosides, tannins, resins and resins combinations, phenolics, volatile oils, and fixed oils). The classification and nomenclature of natural products are also discussed in the course. Moreover, the course involves essential techniques for identification, extraction, isolation, quality evaluation and standardization of natural products (as per WHO and FDA guidelines).

Year 3: First Semester (Semester 5)

Course code: PHCT 301

Course title: Pharmaceutics 2

Credit hours: 2

Prerequisites: PHCT 212

Description: This course offers an overview of sterile dosage forms, including parenteral and ophthalmic preparations. Students will learn the critical aspects of pharmaceutical compounding, sterilization techniques, testing, monitoring, IV admixture, extemporaneous preparations, and the compounding and dispensing of hazardous drugs and controlled substances in hospital pharmacy settings. Additionally, the course will cover radiopharmaceuticals and nuclear pharmacy, fundamentals of prescription interpretation, and the practical application of these topics through lab and hospital pharmacy visits and demonstrations.

Course code: PHCY 302

Course title: Pharmacy ethics, Law and regulation

Credit hours: 2

Prerequisites: -

Description: The general description of the law and ethics course is to introduce to the pharmD students to the concept of law in Saudi Arabia, define ethics and how it is differentiated from law, define the different levels of ethical decision making and review the code of ethics for pharmacists during their practice.

Course code: NUTR-303

Course title: Clinical Nutrition and Dietary Supplements

Credit hours: 3

Prerequisites: -

Description: The course describes the sources, characteristics, health effect, and possible toxicities of macronutrients (carbohydrates, fat, protein), vitamins (fat-soluble vitamins and water-soluble vitamins), minerals (macro minerals and microminerals), probiotics and prebiotics, enzymes, and other food supplements besides their applications in pharmacy practice settings as per Saudi FDA regulations. Types and amounts of dietary requirements; types of nutritional assessments to identify malnutrition and diet-related disease states; enteral and parenteral nutrition support; food allergy and intolerance; and food-drug interaction are also demonstrated in the course. Moreover, the course

focuses on the clinical nutritional intervention for specific disease states (cancer, cardiovascular diseases, diabetic, gastrointestinal diseases, hepatobiliary diseases, kidney diseases, metabolic and respiratory stress etc.).

Course code: STAT- 304

Course title: Biostatistics

Credit hours: 1

Prerequisites: -

Description: Biostatistics is a comprehensive course designed to provide clinical pharmacy students with a complete understanding of statistical methods and their applications in clinical practice and research. This course explores the principles and techniques of biostatistics, focusing on their relevance to clinical pharmacy practice. The course aims to equip students with the necessary skills to interpret and critically analyze clinical data, evaluate therapeutic interventions, and make evidence-based decisions in patient care.

Course code: MICRO 305

Course title: Microbiology

Credit hours: 3

Prerequisites: -

Description: This course covers the basic and clinical concepts of medical microbiology to understand and learn various infectious diseases caused by different microorganisms like bacteria, viruses, parasites, and fungi. This course covers the microbiological properties of various microbes, pathogenesis mechanisms, virulence factors, clinical features and laboratory identification of various microbes. In addition, prevention and control mechanisms of different microorganisms and effective prophylaxis of major infectious diseases. Students are taught about the proper use of antimicrobial agents to treat various infectious diseases and the importance of antimicrobial resistance to antimicrobial drugs and its prevention.

Course code: NAPT-306

Course title: Complementary and Integrative Medicine

Credit hours: 2

Prerequisites: NAPT 214

Description: This course provides the students with thorough understanding of the various CIM modalities (naturopathy, cupping, acupuncture, manual therapies etc.) in the health care system for the treatment of different disease. The course teaches students how to incorporate complementary

and alternative therapies into a patient-specific therapeutic plan for the treatment of various chronic and emerging diseases (such as CVS, CNS, UTIs, RTIs, liver and digestive system, musculoskeletal, cancer, and leishmania etc.) while maintaining patient safety.

Course code: RESM 307

Course title: Pharmacoepidemiology and Research Methods

Credit hours: 3

Prerequisites: -

Description: This course provides students with an overview of the variety of research methods used in pharmacoepidemiological research and the skills to determine which research method/s best answer/s their research question. Research challenges, including appropriate selection of design, research participants, sample size, data collection, selection of appropriate measures, data analysis and interpretation of results are studied.

It encompasses the understanding of presentation, analysis, interpretation of collected data.

In addition, this course the basic in terms of pharmacoepidemiology measurement mathematical skills and its interpretation.

Course code: BUS 381

Course title: Entrepreneurship

Credit hours: 2

Prerequisites: -

Description: يعزز المقرر مفهوم الفكر الريادي وأهمية ريادة الأعمال على الصعيد الشخصي والاقتصادي. ويستعرض كيفية تحويل الأفكار إلى مشاريع تطبيقية وفقاً لأسس وخطط إنشاء المشاريع التجارية السليمة، وتحقيق رؤية المملكة 2030 في مجال خلق فرص العمل من خلال دعم ريادة الأعمال.

Year 3: Second Semester (Semester 6)

Course code: PHBT 309

Course title: Pharmaceutical Biotechnology

Credit hours: 2

Prerequisites: -

Description: Pharmaceutical Biotechnology course is designed to educate PharmD students about the basics of genetics as well as the tools of pharmaceutical biotechnology for the production of therapeutic proteins, vaccines and clonal antibodies. The course also covers essential techniques used in drug discovery and cell and gene therapy. The course incorporates self-learning tasks to improve students' skills of self-learning and development and broaden the student's knowledge of the subject.

Course code: CLPH 310

Course title: Community pharmacy and self-care

Credit hours: 2

Prerequisites: -

Description: This course provides a comprehensive overview of community pharmacies, their services, pharmacist duties in the various community pharmacy settings, in addition to diagnosing and assess community patients with minor illnesses and decide on the proper medication regimens.

Course code: PHARM 311

Course title: Introduction to Pharmacology

Credit hours: 3

Prerequisites: -

Description: This course introduces students to the foundations of Pharmacology, including its principles, drug actions, and adverse effects. It covers key drug classes, such as diuretics, vasodilators, NSAIDs, and glaucoma treatments, while exploring pharmacogenomics and safety regulations. The laboratory component emphasizes ethical animal use, safety protocols, and simulation technologies, supported by interactive and problem-based learning. The course also promotes the application of the 3 R's (Replacement, Reduction, Refinement) in pharmacological research.

Course code: PHCH 312

Course title: Principles of drug action

Credit hours: 2

Prerequisites: PHCH 213

Description: This course introduces the students to medicinal chemistry and describes the basic principles of the pharmacodynamics and pharmacokinetics properties of drugs, and the medicinal chemistry of drugs acting on autonomic nervous system including both cholinergic and adrenergic.

Course code: PATH 313

Course title: Pathophysiology

Credit hours: 2

Prerequisites: PHYL 208

Description: The Physiology 2 course provides students with a comprehensive understanding of the normal functions of the human body and underlying mechanism. Basic aim is to highlight the relationship between systems and how they help to maintain the functioning of the whole body. Special emphasis is laid on homeostasis and the control systems that maintain it.

Course code: PHCT 314

Course title: Drug delivery systems

Credit hours: 2

Prerequisites: -

Description: This course offers a comprehensive exploration of different drug delivery systems, encompassing their design, development, and implementation. Students will gain a comprehensive understanding of the various types of drug delivery systems available and their applications in pharmaceutical practice. Students will gain insights into novel drug delivery systems, exploring emerging technologies and innovative approaches in the field. The course also addresses the challenges encountered in drug delivery, such as ensuring drug stability, minimizing toxicity, and enhancing targeting efficiency.

Course code: CLPH 315

Course title: Evidence Based Practice and Drug Information

Credit hours: 2

Prerequisites: -

Description: This course introduces students to Evidence-based Practice (EBP) and Drug Information Services (DIS). Students will learn the principles of scientific writing integrity, formulate answerable questions, explore various drug information resources, retrieve pertinent information, and evaluate the quality of literature. They'll also develop skills in responding to drug information requests, creating drug monographs, categorizing evidence quality, and making evidence-based conclusions.

Additionally, students will gain familiarity with citation manager software and actively participate in journal club discussions, enhancing their critical appraisal and communication skills within the context of EBP and DIS.

Course code: IMMUN 316

Course title: Immunology

Credit hours: 2

Prerequisites: -

Description: This course covers the basic and clinical concepts in immunology including adaptive and innate immunity, immunological products and their applications in prophylaxis, therapy and diagnosis; antigen-antibody reactions, immune-regulation, immunological memory and tolerance, peculiarities of the immune system including autoimmunity, transplantation and rejection; specific topics including anatomy of the immune system, organs, tissues, cells and soluble factors of immune system; the immune response and vaccination, humoral immunity, cell-mediated immunity, hypersensitivity reactions, immune deficiency disorders, transplantation and tumor immunology.

Year 3: Summer Training

Course code: CLPH 333

Course title: Introductory pharmacy practice experience 1

Credit hours: 2

Prerequisites: CLPH 310

Description: During the summer, third-year PharmD students undertake their first structured practice experience in a community pharmacy setting. This training introduces students to the fundamentals of pharmacy practice, with emphasis on developing core knowledge, practical skills, and professional values. Students gain exposure to prescription processing, accurate dispensing, patient counseling, and identification of medication-related problems, while also engaging in community-focused health services. They practice assessing minor ailments and recommending appropriate over-the-counter pharmacological and non-pharmacological management strategies. In addition, students learn effective communication with patients and healthcare professionals, alongside inventory control and pharmacy management principles. Throughout the experience, students are expected to demonstrate professional behavior consistent with the pharmacist's code of ethics, laying a strong foundation for their future roles as responsible healthcare providers.

Year 4: First Semester (Semester 7)

Course code: PHCH 401

Course title: Medicinal chemistry 1

Credit hours: 3

Prerequisites: PHCH 312

Description: This course provides the students with thorough understanding of the medicinal chemistry and pharmacological activity of endocrine and steroidal drugs including sex hormones and corticosteroids as well as nonsteroidal anti-inflammatory, cardiovascular agents, antitussive and antihistamine.

Course code: PHARM 402

Course title: Pharmacology 1

Credit hours: 3

Prerequisites: PHARM 311

Description: Systemic pharmacology focuses on pharmacokinetic, pharmacodynamic principles, mechanism of action, adverse drug reactions and drug-drug interactions commonly seen in clinical pharmacy practice. The scope of coverage will be drugs used in cardiovascular diseases, drugs for blood disorders, drugs for diabetes, drugs used for obesity, hormonal drugs (pituitary and hypothalamic hormones), drugs used in thyroid disorders, corticosteroids, male and female sex steroids, contraceptive and fertility drugs, drugs used in genito-urinary system, drugs acting on bone and mineral homeostasis, drugs used in asthma and chronic obstructive pulmonary disease (COPD), antitussives and mucolytic agents, drugs for smoking cessation.

Course code: CLPH 403

Course title: Patient Care Skills 1

Credit hours: 2

Prerequisites: -

Description: This course is composed of introductory foundation to pharmaceutical care practice focusing on the patient-centered care. This practical and simulation-based course will cover the 5 steps of the patient care process (1) collecting subjective and objective information about the patient; (2) assessing the collected data to identify problems, determine the adequacy of current treatments, and set priorities; (3) creating an individualized care plan that is evidence-based and cost-effective; (4) implementing the care plan; and (5) monitoring the patient over time during follow-up encounters

to evaluate the effectiveness of the plan and modify it as needed. Simulation pharmacy/clinic will be utilized during the practical sessions to promote hands on experience.

Course code: CLPH404

Course title: Pharmacotherapy 1

Credit hours: 5

Prerequisites: PHARM 311 PATH 313

Description: This course will explain the principles and the updated guidelines to treat cardiovascular, endocrinological, gynecological, and respiratory. During the course the students will go over the clinical presentation and diagnosis of the disease followed by determining the desired therapeutic plan. Additionally, they will be indicating the appropriate management along with evaluating the therapeutic outcomes. Moreover, this course will explain the principles and the updated guidelines to treat the diseases mentioned above.

Course code: PHCH 405

Course title: Instrumental Analysis

Credit hours: 3

Prerequisites: PHCH 211

Description: The Instrumental Analysis course provides students with a comprehensive understanding of analytical techniques used in scientific research and industrial laboratories. It covers sample preparation, chromatographic techniques, spectrophotometry, infrared spectroscopy (IR), and mass spectrometry. The course includes both theoretical knowledge and hands-on laboratory exercises, allowing students to develop practical skills in instrument operation, data analysis, and troubleshooting. By the end of the course, students will be well-equipped to perform accurate and reliable analytical experiments and make informed decisions in various scientific and industrial contexts.

Course code: PHCT 406

Course title: Biopharmaceutics and pharmacokinetics

Credit hours: 2

Prerequisites: PHCT 206

Description: It includes the principles of biopharmaceutics, clearance, volume of distribution, orders of kinetics, compartmental models, plasma protein binding; first-pass and second-pass metabolism; physicochemical and dosage form factors influencing bioavailability; assessment and measurement of key biopharmaceutical properties, bioequivalence, and biopharmaceutical classification scheme

(BCS); influence of dosage regimens on the plasma concentration-time profile of a drug in the body and factors involved in steady-state plasma concentration of a drug. Practice/lab: Dissolution, bioavailability, bioequivalence, and relevant calculations; may use semi-log graph paper or software for computation.

Year 4: Second Semester (Semester 8)

Course code: PHCH 407

Course title: Medicinal chemistry 2

Credit hours: 3

Prerequisites: PHCH 312

Description: This course provides the students with thorough understanding of the medicinal chemistry and mode of action of drugs acting on the cardiovascular system and the CNS

Course code: PHARM 408

Course title: Pharmacology 2

Credit hours: 2

Prerequisites: PHARM 311

Description: Systemic pharmacology focuses on pharmacokinetic, pharmacodynamic principles, mechanism of action, adverse drug reactions and drug-drug interactions commonly seen in clinical pharmacy practice. The scope of coverage will be drugs used in the central nervous system (antipsychotic, antidepressants, anxiolytic, sedative and hypnotic agents, ADHD, Parkinsonism and other movement disorders, Alzheimer's disease, epilepsy, local and general anesthetics, drugs of abuse and opioid analgesics), drugs used in rheumatoid arthritis, drugs for gout, and dermatological agents.

Course code: CLPH 409

Course title: Patient Care Skills 2

Credit hours: 2

Prerequisites: -

Description: This course is a continuation of what students have learned in Pharmaceutical Care 1. The patient-centered care learning experience will continue here with some important topics such as medication adherence, transition of care and medication reconciliation, medication errors and adverse drug reactions, drug/drug and drug/food interactions, Intravenous, prescription processing

and health literacy. Also, in this course students are expected to learn about the role of pharmacist providing the care to special populations including geriatrics, pediatrics, pregnant women. Additionally, on this course students will learn about the medical literature evaluation and how apply it in the patient-centered care. Simulation pharmacy/clinic will be utilized during the practical sessions to promote hands on experience.

Course code: CLPH 410

Course title: Pharmacotherapy 2

Credit hours: 5

Prerequisites: PHARM 311 PATH 313

Description: The course focuses on renal, psychiatric, neurology, bone disorder, dermatology, and pain management. During the course the students will go over the clinical presentation and diagnosis of the disease followed by determining the desired therapeutic plan. Additionally, they will be indicating the appropriate management along with evaluating the therapeutic outcomes. Moreover, this course will explain the principles and the updated guidelines to treat the diseases mentioned above.

Course code: CLPH 411

Course title: Patients Safety and Informatics

Credit hours: 3

Prerequisites: -

Description: This course will provide comprehensive overview of the safety measures and tools in the hospitals also on the technology used in the hospital to improve the use of medications.

Course code: CLPH 412

Course title: Clinical Pharmacokinetics

Credit hours: 2

Prerequisites: PHCT 406

Description: This course focuses on the basic principles of clinical pharmacokinetics for the purpose of optimizing drug therapy. Its emphasis on therapeutic drug monitoring of high-risk drugs e.g., aminoglycosides, vancomycin, voriconazole and posaconazole, methotrexate, digoxin, cyclosporine, tacrolimus and sirolimus, theophylline, phenytoin, carbamazepine, valproic acid, and lithium. Case studies of different patient populations with co-morbidities are utilized which enable the students to apply the clinical pharmacokinetic concepts in a practical context.

Course code: PHCH 451

Course title: Computer-Aided Drug Design

Credit hours: 2

Prerequisites: -

Description: This course provides the students with an introductory knowledge of computer-aided drug design, including structural modeling and molecular dynamics.

Course code: PHCT 452

Course title: Cosmetic Formulations

Credit hours: 2

Prerequisites: -

Description: This course provides an overview of the fundamentals of cosmetics. It covers the science and technology behind different cosmeceutical products for personal, skin, hair, and dental care. This course focus on principles of product development, selection of appropriate ingredients, and the formulation process for different cosmetic products. In addition to that, the course will also cover the role of active ingredients and nanotechnology in cosmetic formulations as well as introduction to the regulatory framework and safety considerations for cosmetic products.

Course code: NATP 453

Course title: Natural Cosmeceuticals

Credit hours: 2

Prerequisites: -

Description: This course explores the roles and applications of natural cosmeceuticals in pharmaceutical markets. During the course, students will gain an understanding of skin functions, types, and the difference between natural cosmeceutical products and cosmetic products, along with how cosmeceuticals can be commercialized and marketed. Students will learn about the important active ingredients in cosmeceutical products in this course. For instance, fruit acids, vitamins, antioxidants, growth factors, stem cells, peptides, amino acids, glycosaminoglycans, and other natural compounds from plants, animals, and microorganisms. The safety of essential oils and allergy concerns are discussed in addition to their applications in natural cosmeceuticals. Moreover, uses of natural cosmeceuticals in a variety of skin conditions, including acne and rosacea, daily skin repair, pigmentation, hair loss and others are also covered

Course code: PHCY 454

Course title: Foundation of Clinical Trials

Credit hours: 2

Prerequisites: -

Description: This course provides a thorough exploration of the field of clinical trials, which is a critical component of medical research supported by both government and private entities. Clinical trials are instrumental in providing definitive answers to significant clinical questions, especially pertaining to the efficiency and effectiveness of novel treatment approaches. Some clinical trials aim to generate hypotheses, while others serve as vital measures for verifying therapeutic outcomes.

The "Foundations of Clinical Trials" course provides a comprehensive overview of the ethical considerations, fundamental principles, and execution strategies related to conducting clinical trials in medical research. Emphasis is placed on protecting the welfare of participants through concepts like equipoise, informed consent, and intent-to-treat analysis. The course will explore different study designs including single-arm, crossover, factorial, sequential multi-stage, and dose-finding designs. Additionally, students will learn about systematic participant allocation methods such as randomization (including blocked or stratified approaches) and consideration of prognostic factors. Furthermore, the course will also cover data collection and analysis techniques, including the use of statistical measures to determine treatment efficacy and safety, including statistical methods for sample size determination, monitoring of adverse events, and endpoint analysis.

Course code: PHARM 455

Course title: Drug Discovery

Credit hours: 2

Prerequisites: -

Description: The goal of the course is to prepare students to contribute to the drug discovery process by providing them with a comprehensive understanding of the principles and practices involved in developing new drugs.

Year 4: Summer Training

Course code: CLPH 444

Course title: Introductory Pharmacy Practice Experience 2

Credit hours: 2

Prerequisites: PHCH 401 PHARM 402 CLPH 403 CLPH 404

Description: Hospital pharmacy training is 5-week duration. It covers the Inpatient and Outpatient pharmacy (2 weeks each), inventory and narcotics, clinical services and intravenous admixing/compounding. (2 days each). The main objective of course is to provide students with an opportunity to put into practice skills they have learned while in college. In addition, students will have an opportunity to enhance those skills, obtain the perspective of a work environment and benefit from a mentor or supervisor's experience and advice. The course includes the first interaction on full scale between students and the hospitals in order to see and practice (under preceptors' supervision) the real-life work of the hospital pharmacists.

Year 5: First Semester (Semester 9)

Course code: PHCH 501

Course title: Medicinal Chemistry 3

Credit hours: 2

Prerequisites: PHCH 312

Description: This course provides the students with thorough understanding of the medicinal chemistry and mode of action of GIT and antimicrobial drugs.

Course code: PHARM 502

Course title: Pharmacology 3

Credit hours: 2

Prerequisites: PHARM 311

Description: In this course, pharmacological aspects of drugs commonly used to treat bacterial, fungal, viral parasite infections in human will be discussed. Additionally, the course will cover drugs that widely used to treat GIT disorders.

Course code: CLPH 503

Course title: Pharmacotherapy 3

Credit hours: 5

Prerequisites: PHARM 311 PATH 313

Description: This 5-credit course will explain the role of clinical pharmacists in choosing the optimal antibacterial agents for different infectious diseases. The course will highlight the role of pharmacists in preventing antibiotic overprescribing to reduce antibiotic resistance. Moreover, this course will explain the principles and the updated guidelines to treat the most common infectious diseases such

as: pneumonia, meningitis, tuberculosis, upper respiratory tract infections urinary tract infections, skin and soft tissue infection, osteomyelitis, etc. In addition, this course will cover HIV, Brucellosis and principles of critical care pharmacotherapy.

Course code: CLPH 504

Course title: Patient care skills 3

Credit hours: 2

Prerequisites: CLPH 404 & CLPH 410

Description: This course is designed to provide the students with the skills needed to identify medication-related problems and to provide medication therapy management services for diabetics, pulmonary disorders, psychiatric disorders, cancer, renal failure and gastrointestinal disorders, which will enable the students to understand his/her responsibilities as a pharmaceutical care practitioner and prepare them for advanced pharmacy practice experience (APPE). In addition, this course will also provide students with skills needed to rationalize the use of vaccines for preventable bacterial and viral diseases alongside considering the vaccine safety.

Course code: PHCT 505

Course title: Industrial pharmacy

Credit hours: 2

Prerequisites: -

Description: This course offers a comprehensive understanding of the pharmaceutical industry, focusing on unit operations, manufacturing processes, quality control, quality assurance, and regulatory compliance. Students will learn about various stages of manufacturing process, manufacturing techniques, quality control, packaging, labeling, and regulatory guidelines.

Course code: PHCY 506

Course title: Pharmaceutical economics and policy

Credit hours: 2

Prerequisites: -

Description: The course is to introduce students to Pharmacoeconomics (PE), PE research and its application in pharmacy practice. This course is an introduction to the role of Pharmacoeconomics (PE) in medical decision making from multiple perspectives. It will introduce the concepts of types of PE/Cost effectiveness analysis (CEA), general computation involved in these analyses, and how to evaluate a CEA. This course also will introduce students to the concept of pharmaceutical policies such as those implemented by government (I.e., government plays a role in health and in the provision

of medications) or by private bodies. This course will teach the students the different pharmaceutical policies that are used for reducing pharmaceutical expenditure and the medications prices from economic preceptive. Furthermore, this course provides a framework for understanding the economic dimensions of pharmaceutical policy and the different models used. Students will learn to think systematically about the issues including pharmaceutical spending, medication prices and what pharmaceutical policies they should use based on the current challenge.

Course code: PHCY 507

Course title: Graduation project

Credit hours: IP

Prerequisites: RESM 307

Description: This is a practical course that will allow students to work on a real-world problem. It is typically a team work with up to two (2) members. The aim is to help students to select related project topics and get the project completed efficiently, through guiding them in searching reliable literature, preparing and presenting results, and writing the reports.

Course code: MGMT 508

Course title: Pharmacy Management and Leadership

Credit hours: 2

Prerequisites: -

Description: This course thoroughly explores the dynamic field of pharmacy management and leadership. Topics cover the foundational principles of effective pharmacy management and the complexities of organizational structures and financial acumen. Students will develop competencies in crafting and executing strategic and business plans, optimizing pharmacy operations, and cultivating effective leadership styles and team dynamics. The course emphasizes acquiring critical networking and communication skills, adaptability within the healthcare sector, and commitment to patient-centered care and quality improvement.

Course code: PHCY 551

Course title: Social and Behavioral Pharmacy

Credit hours: 2

Prerequisites: -

Description: This course will provide comprehensive overview of the psychosocial aspects of medication use by the patients. Also, this course focuses on management principles such as planning,

organizing, directing, and controlling pharmacy resources applied to various pharmacy practice settings and patient outcomes.

Course code: NAAPT 552

Course title: Poisonous and Abused Natural Products

Credit hours: 2

Prerequisites: -

Description: This course covers the most important poisonous and psychoactive organisms and compounds that are associated with significant risk. Throughout the course, students will learn important information regarding poisonous and abused natural products. The course teaches students how to identify numerous hazardous plants' toxicities, clinical symptoms, and toxicity management. In addition, toxicity conditions of different organisms and creatures such as algae, lichens, fungi, and mushrooms are also discussed along with their toxicity signs and treatment strategies. Chemical analysis and biological properties of natural substance of abuse is also an integral part of this course.

Course code: PHCT 553

Course title: Pharmaceutical Quality Control

Credit hours: 2

Prerequisites: -

Description: The course "Pharmaceutical Quality Control" provides students with a comprehensive understanding of quality control in the pharmaceutical industry. Students will learn about quality management systems, good manufacturing practices (GMP), and the principles of quality standards, regulations, and guidelines. Topics include raw material sampling, auditing, specifications, test methods, reference standard materials, validation, instrument qualification, calibration, analytical method development, drug stability, and stability-indicating methods. Through this course, students will gain practical skills to apply quality control concepts in real-world scenarios, ensuring safe and effective drug therapy.

Course code: MED 554

Course title: Precision Medicine

Credit hours: 2

Prerequisites: -

Description: The course focuses on instilling an understanding of the core principles of pharmacogenetics and pharmacogenomics and the impact precision medicine will have on improving clinical outcomes.

The main objective of course is to enable the student to understand the and interpret how variability in genomic and genetic data may be expressed in disease phenotypes and the subsequent implications that enable the development of targeted therapies and/or empowering individualized therapies.

Course code: PHCT 556

Course title: Good Manufacturing Practice

Credit hours: 2

Prerequisites: -

Description: This course provides students with a comprehensive understanding of the principles, regulations, and practices essential for ensuring the quality, safety, and efficacy of pharmaceutical products. GMP is the foundation of pharmaceutical manufacturing, emphasizing stringent quality control standards and compliance with regulatory requirements.

Year 5: Second Semester (Semester 10)

Course code: CLPH 510

Course title: Pharmacotherapy 4

Credit hours: 5

Prerequisites: PHARM 311 PATH 313

Description: This course will explain the principles and the updated guidelines to manage immunological disorders, solid organ transplant, critical care, and oncology. During the course the students will go over the clinical presentation and diagnosis of the disease followed by determining the desired therapeutic plan. Additionally, they will be indicating the appropriate management along with evaluating the therapeutic outcomes. Moreover, this course will explain the principles and the updated guidelines to treat the diseases mentioned above.

Course code: PHCH 511

Course title: Medicinal Chemistry 4

Credit hours: 1

Prerequisites: PHCH 312

Description: This course provides the students with a thorough understanding of the medicinal chemistry and mode of action of anticancer and immunosuppressant drugs.

Course code: PHARM 512

Course title: Pharmacology 4

Credit hours: 1

Prerequisites: PHARM 311

Description: This course discusses the pharmacodynamic (MOA) information and major pharmacokinetic (ADME) aspects of drugs to predict their therapeutic usage, adverse effects and interactions with herbs/food/other drugs to better justify their prescription in patient population. The scope of coverage would be immunosuppressant drugs and drugs used in the treatment of cancer, including chemotherapy, targeted therapies, hormonal therapies, and immunotherapies.

Course code: CLPH 513

Course title: Advance patient care

Credit hours: 1

Prerequisites: CLPH 404 & CLPH 410 & CLPH 503

Description: This course introduces students to the importance of interprofessional relationships and the importance of pharmacists within the multidisciplinary team. Furthermore, ten comprehensive case studies will be included in this course, of which the students are given the chance to apply the knowledge and skills in different case scenarios and settings. The cases will give the students the chance to apply pharmaceutical care to different patient populations including Cardiovascular, endocrine, Infectious disease and renal disease patients.

Course code: PHTX 514

Course title: Clinical Toxicology

Credit hours: 2

Prerequisites: PHARM 502

Description: The course provides the fundamental concepts of toxicology as they relate to specific organs & body systems. The toxic effects of major therapeutic drug classes and common toxicants are discussed, with special focus on learning the general and specific clinical approaches used to manage cases of drug overdose & poisoning.

Course code: BUS 515

Course title: Pharmaceutical Marketing and Business

Credit hours: 2

Prerequisites: -

Description: This course provides an overview of the marketing and business principles and processes in the pharmaceutical industry. Students will explore the various aspects of pharmaceutical marketing, including the industry environment, product development, pricing strategies, supply chain management, and promotional activities. Students will also examine the role of Medical Affairs and Regulatory Affairs in the pharmaceutical industry and how these functions impact marketing strategies. Additionally, the course will cover the new four Ps of pharmaceutical marketing, which include patient engagement, predictive analytics, personalization, and precision. The course will incorporate case studies and real-world examples to help students understand the practical applications of pharmaceutical marketing strategies. By the end of the course, students will have a solid understanding of pharmaceutical marketing and be able to analyze business cases within the industry.

Course code: CLPH 516

Course title: Total parenteral nutrition (TPN)

Credit hours: 2

Prerequisites: NUTR 303

Description: This course typically explores parenteral nutrition principles, formulations, and administration of parenteral nutrition to patients who cannot receive adequate nutrition through oral or enteral routes. Students learn about various components of TPN solutions, including macronutrients, micronutrients, and electrolytes. Emphasis is placed on calculating appropriate dosages, adjusting TPN regimens based on clinical conditions, and preventing complications. This course will also cover facilities required for admixing TPN, drug-nutrient interactions, compatibility, and stability of TPN formulations.

Academic regulations

- One credit hour is defined as:
 - A weekly theoretical lecture of not less than 50 minutes, or
 - A practical/field session of not less than 100 minutes, continuing for a full semester
- GPA is calculated on a 5.0 scale. Please refer to the following table for the GPA calculation method

Table: Grading scale, GPA equivalents, and academic status descriptions

Percentage	Grade/mark	Description	GPA range
95 – 100	A+	Exceptional	4.00 – 5.00
90 – 94	A	Excellent	3.75 – 4.75
85 – 89	B+	Superior	3.50 – 4.50
80 – 84	B	Very good	3.00 – 4.00
75 – 79	C+	Above average	2.50 – 3.50
70 – 74	C	Good	2.00 – 3.00
65 – 69	D+	High pass	1.50 – 2.50
60 – 64	D	Pass	1.00 – 2.00
< 60	F	Fail	0.00 – 1.00
	IP	In-progress	
	IC	Incomplete	
	DN	Denied (disappear or class attendance <75% for lectures or 60% for practice/labs)	
	NP	Pass with No Grade	
	NF	Fail with No Grade	
	W	Withdraw	

- Academic Standing Categories
 - Probation:
 - Imposed if semester GPA < 2.0 or cumulative GPA < 1.8.
 - A student may receive up to 3 probations before suspension/dismissal.
 - Suspension:
 - Student is withdrawn for one academic year. Re-entry possible via petition.
 - Dismissal:
 - After three consecutive warnings for GPA below minimum requirement.
 - Or failure to complete graduation requirements within 1.5 times program duration.
 - Misconduct may also result in dismissal regardless of GPA

Note: Full academic regulations are governed by the university's approved Academic Policies and the College Policy & Procedure Manual.

Students' services and support (overview)

The College of Pharmacy provides a range of student services and support mechanisms to help students succeed academically and personally during their PharmD journey.

Key Support Services:

- Orientation Program: Helps new students transition smoothly into the university environment.
- Student Support and Academic Advising Unit (AASU): Provides academic and personal support through assigned advisors, career guidance, and individualized academic planning. This is coordinated electronically with active interaction between advisors, unit management, and the Vice Deanship for Academic Affairs.
- Program and Course Coordinators: Offer study advice and course-specific guidance.
- Deanship of Student Affairs: Provides broader university-level support, including counselling services, financial aid guidance, student employment, and extracurricular activities.

For full details, students are referred to the PharmD Student Handbook, which includes information on:

- Rights and responsibilities
- Counselling services
- Academic and career advising
- Clubs and student activities

Faculty and staff

#	Name	Academic Rank	Department	Qualification	Gender	Nationality
1	Dr. Mohammed Aldholmi	Assistant Professor	Natural Products	PhD	Male	Saudi
2	Dr. Mohd Amir	Assistant Professor	Natural Products	PhD	Male	India
3	Dr. Rizwan Ahmad	Associate Professor	Natural Products	PhD	Male	Pakistan
4	Dr. Fatima Al-Jishi	Lecturer	Natural Products	Master	Female	Saudi
5	Dr. Yasser Albadr	Assistant Professor	Natural Products	PhD	Male	Saudi
6	Dr. Ibtihal Althomali	Lecturer	Natural Products	Master	Female	Saudi
7	Dr. Abir Abdelnaby	Professor	Pharmaceutical Chemistry	PhD	Male	Egypt
8	Dr. Ahmed Mostafa	Professor	Pharmaceutical Chemistry	PhD	Male	Canada
9	Dr. Heba Mohamed	Professor	Pharmaceutical Chemistry	PhD	Female	Canada
10	Dr. Mohamed Mansour	Associate Professor	Pharmaceutical Chemistry	PhD	Male	Egypt
11	Dr. Abdulmalik Alqarni	Associate Professor	Pharmaceutical Chemistry	PhD	Male	Saudi

12	Dr. Mansour Al-Turki	Assistant Professor	Pharmaceutical Chemistry	PhD	Male	Saudi
13	Dr. Mohammad Sarafroz	Assistant Professor	Pharmaceutical Chemistry	PhD	Male	India
14	Dr. Nada Tawfiq	Assistant Professor	Pharmaceutical Chemistry	PhD	Female	Saudi
15	Dr. Abdulaziz Alkhozaim	Assistant Professor	Pharmaceutical Chemistry	PhD	Male	Saudi
16	Dr. Mohsina Bano Shaik	Lecturer	Pharmaceutical Chemistry	PhD	Female	India
17	Dr. Yosra Elnaggar	Professor	Pharmaceutics	PhD	Female	Egypt
18	Dr. Hassan Ghonaim	Associate Professor	Pharmaceutics	PhD	Male	Egypt
19	Dr. Mohammad Jafar	Assistant Professor	Pharmaceutics	PhD	Male	India
20	Dr. Rayan Mushtaq	Assistant Professor	Pharmaceutics	PhD	Male	Saudi
21	Dr. Ashfaq Mohsin	Lecturer	Pharmaceutics	Master	Male	India
22	Dr. Loloa Almulhim	Lecturer	Pharmaceutics	Master	Female	Saudi
23	Dr. Saira Zahoor	Lecturer	Pharmaceutics	Master	Female	Pakistan
24	Dr. Abdullah Aljasser	Assistant Professor	Pharmaceutics	PhD	Male	Saudi
25	Dr. Mohammed Jamal Akbar	Assistant Professor	Pharmaceutics	PhD	Male	Saudi
26	Dr. Dania Abdulrahman	Assistant Professor	Pharmacology	PhD	Female	Saudi
27	Dr. Abdulaziz Almotlak	Assistant Professor	Pharmacology	PhD	Male	Saudi
28	Dr. Fadhel Alomar	Associate Professor	Pharmacology	PhD	Male	Saudi
29	Dr. Faheem Hyder Pottoo	Associate Professor	Pharmacology	PhD	Male	India
30	Dr. Hassan Al-Saad	Assistant Professor	Pharmacology	PhD	Male	Saudi
31	Dr. Alaa Alghamdi	Assistant Professor	Pharmacology	PhD	Female	Saudi
32	Dr. Mohammed Taher Ali	Associate Professor	Pharmacology	PhD	Male	India
33	Dr. Mohammed Khalid	Lecturer	Pharmacology	Master	Male	India
34	Dr. Ahmed Alshehri	Assistant Professor	Pharmacology	PhD	Male	Saudi
35	Dr. Arwa Almutiri	Teaching Assistant	Pharmacology	PharmD	Female	Saudi
36	Dr. Moyad Almuslim	Assistant Professor	Pharmacology	PhD	Male	Saudi
37	Dr. Dhafer Al Shayban	Associate Professor	Pharmacy Practice	PhD	Male	Saudi
38	Dr. Farah Alhomoud	Associate Professor	Pharmacy Practice	PhD	Female	Saudi
39	Dr. Faten Alhomoud	Associate Professor	Pharmacy Practice	PhD	Female	Saudi
40	Dr. Fawaz Aloatibi	Associate Professor	Pharmacy Practice	PhD	Male	Saudi
41	Dr. Mohammed Alsultan	Assistant Professor	Pharmacy Practice	PhD	Male	Saudi

42	Dr. Mohammed Ashraful Islam	Associate Professor	Pharmacy Practice	PhD	Male	Bangladesh
43	Dr. Sawsan Kurdi	Associate Professor	Pharmacy Practice	Residency	Female	Saudi
44	Dr. Wafa AlZlaiq	Assistant Professor	Pharmacy Practice	Residency	Female	Saudi
45	Dr. Syed Azizullah Ghori	Lecturer	Pharmacy Practice	Master	Male	India
46	Dr. Bassem Almalki	Assistant Professor	Pharmacy Practice	Residency	Male	Saudi
47	Dr. Beshayer Alshuhail	Assistant Professor	Pharmacy Practice	Residency	Female	Saudi
48	Dr. Veerendra Chandralla	Lecturer	Pharmacy Practice	Master	Male	India
49	Dr. Raniah Aljaizani	Lecturer	Pharmacy Practice	Master	Female	Saudi
50	Dr. Ahmed Alenazi	Teaching Assistant	Pharmacy Practice	PharmD	Male	Saudi
51	Dr. Khalid alamer	Assistant Professor	Pharmacy Practice	PhD	Male	Saudi
52	Dr. Yusef Algarni	Assistant Professor	Pharmacy Practice	PhD	Male	Saudi
53	Dr. Dana Alsoghair	Assistant Professor	Pharmacy Practice	PhD	Female	Saudi

Note: *Faculty-specific policies and responsibilities are included in the Faculty Handbook.*

Quality assurance and accreditation

The College of Pharmacy (COP) has a structured internal quality assurance framework managed through the Vice Deanship for Development and Community Partnership (VDDCP). The framework is supported by specialized units such as the Quality Management and Academic Accreditation Unit, the measurement and evaluation unit, and others, all overseen by the Main Quality Committee chaired by the Dean. These structures ensure that teaching, learning, assessment, research, community service, and administrative processes meet national and international quality standards.

The College aligns its systems with the Imam Abdulrahman bin Faisal University (IAU) quality assurance model and actively maintains compliance with both the National Center for Academic Accreditation and Assessment (NCAAA) and international accreditation requirements (e.g., ACPE). Self-evaluation, program review, benchmarking, and KPI monitoring are integral parts of the quality cycle to ensure continuous improvement and sustainability of accreditation.

Note: *Quality Management System Manual (QMS) outlines the internal quality assurance policies, review cycles, and documentation standards.*

Appendices

Appendix 1: Program Mapping Matrix

CLOs-PLOs Mapping Matrix (New Curriculum)													
Level	Course Name	Course Code	Knowledge and understanding		Skills						Values, Autonomy, and Responsibility		
			K1	K2	S1	S2	S3	S4	S5	S6	V1	V2	V3
Level 1	General English Language 1	ENGL-101											
	Biology 1	BIOL-105											
	Physics	PHYS-106											
	Computer Skills	COMP-107											
	Creed and Family in Islam	ISLM-181											
Level 2	General English Language 2	ENGL-102											
	English for Academic and Specific Purpose	ENGL-103											
	Biology 2	BIOL-108											
	Chemistry	CHEM-109											
	Learning & communication Skills	LRSK -104											
	Arabic Language Skills	ARAB 182											
Level 3	Pharmaceutical Organic Chemistry 1	PHCH 201											
	Foundation of health care and pharmacy practice	PHCY 202											
	Anatomy and histology	ANAT 203											
	Biochemistry 1	BIOCH 204											
	Physiology 1	PHYL 205											
	Physical pharmacy	PHCT 206											
	History and civilization of KSA	HIST 281											
Level 4	Physiology 2	PHYL 208											
	Biochemistry 2	BIOCH 209											
	Pharmaceutical calculations	PHCT 210											
	Pharmaceutical Analytical Chemistry	PHCH 211											
	Pharmaceutics 1	PHCT 212											
	Pharmaceutical organic chemistry 2	PHCH 213											
	Fundamentals of natural products	NAPT-214											
	Islamic ethics and values	ISLAM 282											

Level 5	Pharmaceutics 2	PHCT 301	P		P								
	Pharmacy ethics, Law and regulation	PHCY 302	P		P			P			P		P
	Clinical nutrition and dietary supplements	NUTR-303	P	P	P	P		P				P	
	Biostatistics	STAT 304	P			P			P			P	
	Microbiology	MICRO 305	P			P				P	P	P	
	Complementary and Integrative Medicine	NAPT-306	P	P	P		P					P	
	Pharmacoepidemiology and research methods	RESM 307	P			P			P		P		
	Entrepreneurship	BUS 381		P		P			P			P	
Level 6	Pharmaceutical biotechnology	PHBT-309	P	P	P				P			P	
	Community pharmacy and self-care	CLPH 310	P	P				P	P			P	
	Introduction to pharmacology	PHARM311	P	P	P	P					P	P	
	Principles of drug action	PHCH 312	P		P				P			P	
	Pathophysiology	PATH 313	P	P	P			P				P	
	Drug delivery systems	PHCT 314	P	P	P	P						P	
	Evidence-based practice and Drug information	CLPH 315		P		P		P	P			P	
	Immunology	IMMUN 316	P		P	P							P
Summer	Introductory Pharmacy Practice Experience 1	CLPH 333		P		P	P	P				P	
Level 7	Medicinal chemistry 1	PHCH 401	M		M	M							M
	Pharmacology 1	PHARM402	M	M	M	M							M
	Patient care skills 1	CLPH 403		M			M	M					M
	Pharmacotherapy 1	CLPH 404		M			M	M					M
	Instrumental analysis	PHCH 405	M		M	M		M		M			M
	Biopharmaceutics and pharmacokinetics	PHCT 406	M		M				M				
Level 8	Medicinal chemistry 2	PHCH 407	M		M	M							M
	Pharmacology 2	PHARM408	M	M	M	M							M
	Patient care skills 2	CLPH 409		M		M	M	M		M			M
	Pharmacotherapy 2	CLPH 410		M			M	M					M
	Patient safety and informatics	CLPH 411		M		M		M	M				M
	Clinical pharmacokinetics	CLPH 412		M			M		M				
(8)	Computer Aided Drug Design	PHCH 451	M		M	M			M				M

Electives (Level 8)	Cosmetic Formulations	PHCT 452	M	M	M	M							
	Natural Cosmeceuticals	NAPT-453	M			M	M					M	
	Foundation of Clinical Trials	PHCY 454		M		M			M		M		
	Drug Discovery	PHCH 455	M			M						M	
Summer	Introductory Pharmacy Practice Experience 2	CLPH 444	M		M			M	M	M	M		
Level 9	Medicinal chemistry 3	PHCH 501	M		M	M						M	
	Pharmacology 3	PHARM502	M	M	M	M						M	
	Pharmacotherapy 3	CLPH 503		M			M	M				M	
	Patient care skills 3	CLPH 504	M	M		M		M				M	M
	Industrial pharmacy	PHCT 505	M			M							
	Pharmaceutical economics and policies	PHCY 506		M		M	M		M			M	
	Graduation project	PHCY 507		M		M		M			M	M	
	Pharmacy management and leadership	MGMT-508		M	M	M			M		M		
Electives (Level 9)	Social and Behavioral Pharmacy	PHCY 551		M		M	M					M	
	Poisonous and Abused Natural Products	NAPT-552	M		M		M					M	
	Pharmaceutical Quality Control	PHCT 553	M	M		M				M		M	
	Precision Medicine	PHARM 554	M	M	M	M						M	
	Good Manufacturing Practice	PHCT 556	M		M							M	
Level 10	Pharmacotherapy 4	CLPH 510		M			M	M				M	
	Medicinal chemistry 4	PHCH 511	M		M	M						M	
	Pharmacology 4	PHARM512	M	M	M	M						M	
	Advanced patient care	CLPH 513	M	M		M	M					M	M
	Clinical toxicology	PHTX 514	M	M		M	M					M	
	Pharmaceutical marketing and business	BUS 515		M		M		M	M		M		M
	Total parenteral nutrition (TPN)	CLPH 516		M			M		M			M	

Appendix 2: Academic calendar (2024-2025)



الإجراء الأكاديمي	التاريخ الميلادي	التاريخ الهجري	اليوم	الأسبوع الدراسي
إتاحة عربة التسجيل لترتيب المقررات استعداداً لتسجيل المقررات للفصل الدراسي الأول للعام الجامعي 1446هـ	2024-08-17	1446-02-13	السبت	الإجازة الصيفية
بداية فترة تسجيل المقررات للفصل الدراسي الأول للعام الجامعي 1446هـ وفقاً لخطة التسجيل المعلنة	2024-08-18	1446-02-14	الأحد	الأول
بداية فترة تقديم طلبات الزيارة الداخلية				
بداية الدراسة للفصل الدراسي الأول للعام الجامعي 1446هـ				
بداية فترة تأجيل الدراسة للنظام الفصلي والسنوي				
بداية فترة معادلة المقررات للطلاب المحولين من خارج الجامعة	2024-08-24	1446-02-20	السبت	
نهاية فترة تسجيل المقررات للفصل الدراسي الأول للعام الجامعي 1446هـ تمام الساعة 12 ظهراً				
نهاية فترة تقديم طلبات الزيارة الداخلية تمام الساعة 12 ظهراً	2024-08-25	1446-02-21	الأحد	الثاني
بداية فترة معالجة التسجيل من خلال مكاتب التسجيل في الكليات تمام الساعة 8 صباحاً				
نهاية فترة تأجيل الدراسة للنظام الفصلي تمام الساعة 2 ظهراً				
نهاية فترة معالجة التسجيل من خلال مكاتب التسجيل في الكليات تمام الساعة 2 ظهراً				
إدخال مؤشر الانقطاع عن الدراسة لمن لم يسجل من الطلاب تمام الساعة 2 ظهراً	2024-08-29	1446-02-25	الخميس	
نهاية فترة معادلة المقررات للطلاب المحولين من خارج الجامعة				
بداية فترة الاعتذار عن الدراسة للنظام الفصلي	2024-09-01	1446-02-28	الأحد	الثالث
بداية فترة الانسحاب من مقرر للنظام الفصلي والسنوي بدرجة "ع"، "ع" و"و"				
نهاية فترة تأجيل الدراسة للنظام السنوي تمام الساعة 2 ظهراً	2024-09-12	1446-03-09	الخميس	الرابع
إدخال مؤشر الغياب المتصل (منقطع متغيب) للنظام الفصلي				
بداية فترة الاعتذار عن الدراسة للنظام السنوي	2024-09-15	1446-03-12	الأحد	الخامس
بنهاية دوام اليوم تبدأ إجازة اليوم الوطني وإجازة نهاية أسبوع مطولة	2024-09-19	1446-03-16	الخميس	
العودة بعد إجازة اليوم الوطني وإجازة نهاية الأسبوع المطولة	2024-09-29	1446-03-26	الأحد	السادس
إدخال مؤشر الغياب المتصل (منقطع متغيب) للنظام السنوي	2024-10-10	1446-04-07	الخميس	السابع

الأسبوع الدراسي	اليوم	التاريخ الهجري	التاريخ الميلادي	الإجراء الأكاديمي
الحادي عشر	الخميس	1446-05-05	2024-11-07	نهاية فترة الانسحاب من مقرر للنظام الفصلي بدرجة "ع"، "W" تمام الساعة 2 ظهراً
				بنهاية دوام اليوم تبدأ إجازة الخريف للفصل الدراسي الأول للعام الجامعي 1446 هـ
الثاني عشر	الأحد	1446-05-15	2024-11-17	العودة بعد إجازة الخريف للفصل الدراسي الأول للعام الجامعي 1446 هـ
				بداية فترة تقديم طلبات إعادة قيد المنقطعين عن الدراسة للفصل الدراسي الثاني للعام الجامعي 1446 هـ
الرابع عشر	الخميس	1446-06-04	2024-12-05	نهاية فترة الاعتذار عن الدراسة للنظام الفصلي
الخامس عشر	الخميس	1446-06-11	2024-12-12	نهاية فترة تقديم طلبات إعادة قيد المنقطعين عن الدراسة للفصل الدراسي الثاني للعام الجامعي 1446 هـ تمام الساعة 2 ظهراً
				بداية الاختبارات النهائية للفصل الدراسي الأول للعام الجامعي 1446 هـ
الثامن عشر	الخميس	1446-07-02	2025-01-02	نهاية فترة إدخال تقدير غير مكتمل "ل"، "ل"، "ل"
				للفصل الدراسي الثاني والاصيفي للعام الجامعي 1445 هـ
				آخر يوم لأعضاء هيئة التدريس لرصد الدرجات النهائية
إجازة منتصف العام	الأحد	1446-07-05	2025-01-05	بداية فترة تقديم طلبات تغيير التخصص داخل الكلية تمام الساعة 9 صباحاً
				بداية فترة تقديم طلبات التخصص الجماعي تمام الساعة 9 صباحاً
				نهاية فترة تقديم طلبات تغيير التخصص داخل الكلية تمام الساعة 12 ظهراً
				بداية فترة تقديم طلبات التخصص الجماعي تمام الساعة 12 ظهراً
				بداية فترة تقديم طلبات التخصص الفردي تمام الساعة 9 صباحاً
				نهاية فترة تقديم طلبات التخصص الفردي تمام الساعة 12 ظهراً
				نهاية فترة تقديم طلبات التخصص الفردي تمام الساعة 12 ظهراً

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التقويم الزمني للإجراءات الأكاديمية بنظام سجلات الطلاب الفصل الدراسي الثاني | للعام الجامعي 1446 هـ

الإجراء الأكاديمي	التاريخ الميلادي	التاريخ الهجري	اليوم	الأسبوع الدراسي
إتاحة عربة التسجيل لترتيب المقررات استعداداً لتسجيل المقررات للفصل الدراسي الثاني للعام الجامعي 1446 هـ	2025-01-11	1446-07-11	السبت	إجازة منتصف العام
بداية فترة تسجيل المقررات للفصل الدراسي الثاني للعام الجامعي 1446 هـ وفقاً لخطة التسجيل المعلنة	2025-01-12	1446-07-12	الأحد	الأول
بداية فترة تقديم طلبات الزيارة الداخلية				
بداية الدراسة للفصل الدراسي الثاني للعام الجامعي 1446 هـ				
بداية فترة تأجيل الدراسة للنظام الفصلي				
نهاية فترة تسجيل المقررات للفصل الدراسي الثاني للعام الجامعي 1446 هـ تمام الساعة 12 ظهراً	2025-01-18	1446-07-18	السبت	الثاني
نهاية فترة تقديم طلبات الزيارة الداخلية تمام الساعة 12 ظهراً				
بداية فترة معالجة التسجيل من خلال مكاتب التسجيل في الكليات تمام الساعة 8 صباحاً				
نهاية فترة تأجيل الدراسة للنظام الفصلي تمام الساعة 2 ظهراً				
بداية فترة معالجة التسجيل من خلال مكاتب التسجيل في الكليات تمام الساعة 2 ظهراً	2025-01-23	1446-07-23	الخميس	
إدخال مؤشر الانقطاع عن الدراسة لمن لم يسجل من الطلاب تمام الساعة 2 ظهراً				
نهاية فترة الانسحاب من مقرر للنظام السنوي بدرجة "ع"، "W" تمام الساعة 2 ظهراً				
بداية فترة الاعتذار عن الدراسة للنظام الفصلي	2025-01-26	1446-07-26	الأحد	الثالث
بداية فترة الانسحاب من مقرر للنظام الفصلي بدرجة "ع"، "W"				
إدخال مؤشر الغياب المتصل (منقطع متغيب) للنظام الفصلي	2025-02-06	1446-08-07	الخميس	الرابع
إجازة يوم التأسيس	2025-02-23	1446-08-24	الأحد	السابع
استئناف الدراسة بعد إجازة يوم التأسيس	2025-02-24	1446-08-25	الاثنين	
نهاية فترة الاعتذار عن الدراسة للنظام السنوي	2025-03-06	1446-09-06	الخميس	الثامن
بنهاية دوام اليوم تبدأ إجازة عيد الفطر المبارك للعام الجامعي 1446 هـ	2025-03-20	1446-09-20	الخميس	العاشر

الإجراء الأكاديمي	التاريخ الميلادي	التاريخ الهجري	اليوم	الأسبوع الدراسي
العودة بعد إجازة عيد الفطر المبارك للعام الجامعي 1446 هـ				
بداية فترة تقديم طلبات إعادة قيد المنقطعين عن الدراسة للفصل الدراسي الصيفي للعام الجامعي 1446 هـ	2025-04-06	1446-10-08	الأحد	الحادي عشر
نهاية فترة الانسحاب من مقرر للنظام الفصلي بدرجة "ع", "و" تمام الساعة 2 ظهراً	2025-04-10	1446-10-12	الخميس	
نهاية فترة الاعتذار عن الدراسة للنظام الفصلي				
نهاية فترة تقديم طلبات إعادة قيد المنقطعين عن الدراسة للفصل الدراسي الصيفي للعام الجامعي 1446 هـ تمام الساعة 2 ظهراً	2025-05-01	1446-11-03	الخميس	الرابع عشر
بداية الاختبارات النهائية للفصل الدراسي الثاني للعام الجامعي 1446 هـ	2025-05-18	1446-11-20	الأحد	السابع عشر
نهاية فترة إدخال تقدير غير مكتمل "ل", "ع", "و"				
للـفصل الدراسي الأول للعام الجامعي 1446 هـ				
آخر يوم لأعضاء هيئة التدريس لرصد الدرجات النهائية	2025-05-29	1446-12-02	الخميس	الثامن عشر
بـنهاية دوام اليوم تبدأ إجازة عيد الأضحى المبارك والإجازة الصيفية للعام الجامعي 1446 هـ				

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التقويم الزمني للإجراءات الأكاديمية بنظام سجلات الطلاب الفصل الدراسي الصيفي | للعام الجامعي 1446 هـ

الإجراء الأكاديمي	التاريخ الميلادي	التاريخ الهجري	اليوم	الأسبوع الدراسي	
إتاحة عربة التسجيل لترتيب المقررات استعداداً لتسجيل المقررات للفصل الدراسي الصيفي للعام الجامعي 1446 هـ	2025-06-14	1446-12-18	السبت	إجازة عيد الأضحى المبارك	
بداية فترة تسجيل المقررات للفصل الدراسي الصيفي للعام الجامعي 1446 هـ وفقاً لخطة التسجيل المعلنة	2025-06-15	1446-12-19	الأحد	الأول	
بداية فترة تقديم طلبات الزيارة الداخلية					
بداية الدراسة للفصل الدراسي الصيفي للعام الجامعي 1446 هـ					
بداية فترة معالجة التسجيل من خلال مكاتب التسجيل في الكليات تمام الساعة 8 صباحاً	2025-06-17	1446-12-21	الثلاثاء		
نهاية فترة تسجيل المقررات للفصل الدراسي الصيفي للعام الجامعي 1446 هـ تمام الساعة 12 ظهراً	2025-06-18	1446-12-22	الأربعاء		
نهاية فترة تقديم طلبات الزيارة الداخلية تمام الساعة 12 ظهراً	2025-06-19	1446-12-23	الخميس		
بداية فترة تقديم طلبات التسكين الجماعي تمام الساعة 9 صباحاً	2025-06-22	1446-12-26	الأحد		الثاني
نهاية فترة تقديم طلبات تغيير التخصص داخل الكلية تمام الساعة 12 ظهراً	2025-06-23	1446-12-27	الاثنين		
بداية فترة تقديم طلبات التخصيص الجماعي تمام الساعة 9 صباحاً	2025-06-25	1446-12-29	الأربعاء		
نهاية فترة تقديم طلبات التخصيص الجماعي تمام الساعة 12 ظهراً	2025-06-26	1447-01-01	الخميس		
بداية فترة تقديم طلبات إعادة قيد المنقطعين عن الدراسة للفصل الدراسي الأول للعام الجامعي 1447 هـ	2025-06-29	1447-01-04	الأحد	الثالث	
بداية فترة تقديم طلبات التحويل الداخلي للفصل الدراسي الأول للعام الجامعي 1447 هـ					
نهاية فترة تقديم طلبات التحويل الداخلي للفصل الدراسي الأول للعام الجامعي 1447 هـ					2025-07-03

الإجراء الأكاديمي	التاريخ الميلادي	التاريخ الهجري	اليوم	الأسبوع الدراسي
بداية فترة دراسة طلبات التحويل الداخلي للفصل الدراسي الأول للعام الجامعي 1447 هـ والرد من قبل الكليات	2025-07-06	1447-01-11	الأحد	الرابع
نهاية فترة دراسة طلبات التحويل الداخلي للفصل الدراسي الأول للعام الجامعي 1447 هـ والرد من قبل الكليات	2025-07-10	1447-01-15	الخميس	
بداية فترة الموافقة على طلبات إخلاء الطرف للتحويل الداخلي للفصل الدراسي الأول للعام الجامعي 1447 هـ والرد من قبل الكليات	2025-07-13	1447-01-18	الأحد	الخامس
بداية فترة إقرار الطالب على طلبات التحويل الداخلي		1447-01-20	الثلاثاء	
نهاية فترة الموافقة على طلبات إخلاء الطرف للتحويل الداخلي للفصل الدراسي الأول للعام الجامعي 1447 هـ والرد من قبل الكليات		2025-07-17	1447-01-22	
نهاية فترة تقديم طلبات إعادة قيد المنقطعين عن الدراسة للفصل الدراسي الأول للعام الجامعي 1447 هـ تمام الساعة 2 ظهراً	2025-08-07	1447-02-13	الخميس	الثامن
بداية الاختبارات النهائية للفصل الدراسي الصيفي للعام الجامعي 1446 هـ	2025-08-10	1447-02-16	الأحد	التاسع
نهاية الاختبارات النهائية للفصل الدراسي الصيفي للعام الجامعي 1446 هـ	2025-08-12	1447-02-18	الثلاثاء	
آخر يوم لأعضاء هيئة التدريس لرصد الدرجات النهائية	2025-08-14	1447-02-20	الخميس	
بنهاية دوام اليوم تبدأ إجازة نهاية العام الجامعي 1446 هـ				
بداية فترة تقديم طلبات التسكين الفردي تمام الساعة 9 صباحاً	2025-08-17	1447-02-23	الأحد	إجازة
نهاية فترة تقديم طلبات التسكين الفردي تمام الساعة 12 ظهراً	2025-08-18	1447-02-24	الاثنين	نهاية
بداية فترة تقديم طلبات التخصيص الفردي تمام الساعة 9 صباحاً	2025-08-19	1447-02-25	الثلاثاء	العام
نهاية فترة تقديم طلبات التخصيص الفردي تمام الساعة 12 ظهراً	2025-08-21	1447-02-27	الخميس	الجامعي

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