



College of Dentistry & Pharmacy

Program:	Doctor of Pharmacy (Pharm D)
Document:	Study Plan

A. Program Identification and General Information

1. Program Main Location: Buraydah, Qassim
2. Branches Offering the Program: NA
3. Reasons for Establishing the Program: (Economic, social, cultural, and technological reasons, and national needs and development, etc.) There is a large wealth of Literature that support the valuable role of clinical pharmacists with such degree in improving patient care, minimizing drug adverse outcomes, and reducing health expenditure. In addition, Pharm D holders had demonstrated a positive impact on improving patient education and knowledge of marketing and advertising the medications in industrial pharmacy.
4. Total Credit Hours for Completing the Program: 197 hrs.
5. Professional Occupations/Jobs: Pharmacist in: Hospital, Education, Community, and Regulation
6. Major Tracks/Pathways (if any): NA

B. Mission, Goals, and Learning Outcomes

1. Program Mission: The Pharmaceutical Sciences Program is committed to offer high quality education to its students and provide community services in different professional pharmacy settings.
2. Program Goals: <ul style="list-style-type: none"> Graduate high-quality clinical pharmacist. Enabling the best teaching and learning practice. Improvement of research outcomes. Fostering community services.
3. Relationship between Program Mission and Goals and the Mission and Goals of the Institution/College. The mission and goals of the Bachelor's in Pharmaceutical Sciences (BPS) program are consistent with the mission and goals of BPC and the college. There is an alignment between mission and goals of BPS program with that of the institutional mission and goals as well as that for the college. Program Mission: The Pharmaceutical Sciences Program is committed to offer high quality education to its students and provide community services in different professional pharmacy settings. BPC Mission: The colleges provide university education that meets the needs of the labor market and contributes effectively and permanently to achieving comprehensive development in the Kingdom by adhering to international standards of excellence in the fields of education, research, community service, and the integration of individuals, technology, business systems, and human capital development.
4. Graduate Attributes: <ul style="list-style-type: none"> The ability to apply "knowledge, critical thinking and problem-solving skills" in pharmacy practice. The ability to employ "effective communication skills" in dealing with individuals and health care providers. The ability to demonstrate "professionalism" in the workplace in accordance with values and code of ethics. The ability to possess "leadership and management skills" across different responsibilities in pharmacy practice. The ability to engage in "independent and life-long learning" from experiences to enhance continuous professional development.

5. Program learning Outcomes*	
Knowledge and Understanding	
K1	Develop in depth and breadth knowledge in essential biomedical, pharmaceutical, social/behavioral/administrative, and clinical sciences to be able to understand the development and use of medications, natural remedies, and other therapies for the prevention and treatment of diseases
K2	Describe the role of the pharmacists in impacting the safety and efficacy of each component of medication use systems in the different pharmacy settings.
K3	Identify the basic principles of designing and manufacturing safe and effective medications and describe the role of pharmacist in the quality assurance of pharmaceutical products and services.
K4	Describe the role of regulatory authorities, public and private insurers, and pharmaceutical industry, on health care needs and delivery in Saudi Arabia.
Skills	
S1	Provide evidence-based patient-centered care that is ethical and culturally sensitive to patient's needs and provide an appropriate level of primary health care and referral.
S2	Manage patient healthcare needs using human, financial, technological, and physical resources to optimize the safety and efficacy of medication use systems in accordance with ethical, legal and professional requirements.
S3	Critically analyze scientific literature and technologies related to pharmacy when designing prevention, intervention, and educational strategies for individuals and communities to manage patient's need and to promote the health and wellness of the society.
S4	Contribute to decision making in clinical rounds by providing accurate and relevant recommendations
S5	Apply appropriate research methods including pharmaceutical, phytochemical, medicinal, pharmacological and clinical to solve scientific and practice related problems.
S6	Effectively apply communication skills and tools when interacting with an individual, group, or organization using professional language and a variety of strategies that consider the situation and the intended outcomes of the communication with the diverse audiences.
S7	Educate patients or caregivers using lay language on how to use devices related to management and monitoring of diseases during patient counselling.
S8	Accurately use general and pharmacy-specific technologies and mathematical skills to optimize the medication use system.
S9	Demonstrate sufficient fine and gross motor skills necessary to perform laboratory, technical related to pharmacy practice
S10	Effectively participate in emergency care appropriate to the practice setting
Values	
V1	Actively collaborate and engage as a member of the interprofessional healthcare team and demonstrate effective leadership skills, sense of responsibility and accountability when delivering pharmacy care to patients, communities and society.
V2	Engage in self-awareness, self-reflection in relation to personal and professional development for individual growth.

C. Program Study Plan (Pharm D)

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 1	CS 140	Computer Skills	Required		3	College
	ENG 100	English (1)	Required		8	Institution
	MATHM140	Mathematics 1	Required		2	Program
	SCS140	Communication Skills	Required		2	College
Level 2	STAT 124	Biostatistics	Required		2	College
	BIOL 111	General Biology	Required		3	College
	PHYS 115	General Physics	Required		3	College
	CHEM 113	General chemistry	Required		3	College
	PHT 102	Pharmaceutical Terminology	Required		2	Program
	ENG 145	English for Health Purposes	Required		3	College
Level 3	IC101	Introduction to Islamic Culture	Required		2	Institution
	ARB 101	Linguistic Skills	Required		2	Institution
	PHT 201	Pharmaceutics-I	Required	Level 1 and 2	3 (2+1)	Program
	PHL 201	Biochemistry-I	Required		2(2+0)	Program
	PHSL 115	Principles of Physiology	Required		3 (3+0)	College
	PHC 201	Pharmaceutical Organic Chemistry	Required		3 (2+1)	Program
	ANAT 114	Principles of Anatomy	Required		3 (2+1)	College
IC102	Islam and Community Building	Required	IC 101		2	Institution
PHT 202	Pharmaceutical Microbiology	Required	Level 1 and 2		3 (2+1)	Program
Level 4	PHL 204	Biochemistry-II	Required	PHL 201	2 (2+0)	Program
	PHL 205	Physiology-II	Required	PHSL 115	2 (2+0)	Program
	PHC 202	Pharmaceutical Analytical Chemistry	Required	Level 1 and 2	3 (2+1)	Program
	TR 201	Pharmacy Training-I	Required	Level 1 and 2	1 (0+1)	Program
	PHC 203	Medicinal Chemistry I	Required	PHC 201	2 (2+0)	Program
	IC103	Economic System in Islam	Required	IC 102	2	Institution
	PHT 301	Pharmaceutics-II	Required	Level 3	3 (2+1)	Program
Level 5	PHT 302	Immunology	Required	Level 3 PHL 204	2 (2+0)	Program
	PHG 301	Pharmacognosy-I	Required	Level 3	3 (2+1)	Program
	PHL 301	Pharmacology-I	Required	Level 3	3 (2+1)	Program
	PHC 301	Medicinal Chemistry-II	Required	Level 3 PHC 203	2 (2+0)	Program
	PHCL 301	Introduction to Pathophysiology	Required	Level 3 PHL 205	2 (2+0)	Program
	PHCL 300	Drug information	Required	Level 3	2 (1+1)	Program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
				TR 201		
Level 6	IC104	Political System in Islam	Required	IC 103	2	Institution
	PHCL 302	Self-care and community Pharmacy	Required	Level 4 Level 5	2 (1+1)	Program
	PHL 302	Pharmacology-II	Required	Level 4 PHL 301	2 (2+0)	Program
	PHC 302	Medicinal Chemistry-III	Required	Level 4	3 (2+1)	Program
	PHCL 304	Pharmacotherapy-I	Required	Level 4 PHL 301 PHC 301	2 (2+0)	Program
	PHCL 305	Pharmacy Practice Lab I	Required	Level 4 PHL 301 PHC 301	1 (0+1)	Program
	PHCL 306	Pharmacotherapy-II	Required	Level 4 PHL 301 PHC 301	2 (2+0)	Program
	PHT 303	Biopharmaceutics & Pharmacokinetics	Required	Level 4	3 (2+1)	Program
Summer	TR 302	Pharmacy Training-II 250 Hours (Community Pharmacy)	Required	Level 5 PHCL 302	2 (0+2)	Program
Level 7	ARB 103	Arabic Writing	Required	ARB 101	2	Institution
	PHT 401	Sterile & Parental Preparations	Required	Level 5 PHT 303	2 (2+0)	Program
	PHCL 401	Pharmacotherapy-III	Required	Level 5 PHL 302 PHC 302	2 (2+0)	Program
	PHCL 402	Pharmacy Practice Lab II	Required	Level 5 PHL 302 PHC 302	1 (0+1)	Program
	PHCL 403	Pharmacotherapy-IV	Required	Level 5 PHL 302 PHC 302	2 (2+0)	Program
	PHL 401	Pharmacology-III	Required	Level 5	2 (2+0)	Program
	PHC 401	Medicinal Chemistry-IV	Required	Level 5	2 (2+0)	Program
	PHG 401	Pharmacognosy-II	Required	Level 5	3 (2+1)	Program
Level 8	PHCL 404	Research Design & Pharmacoepidemiology	Required	Level 6 TR 302	3 (2+1)	Program
	PHT 402	Pharmaceutical Biotechnology	Required	Level 6 PHT 401	2 (2+0)	Program
	PHG 402	Pharmacognosy-III	Required	Level 6 PHG 401	1 (1+0)	Program
	PHCL 405	Pharmacotherapy-V	Required	Level 6 PHL 401 PHC 401	2 (2+0)	Program
	PHCL 406	Pharmacy Practice Lab III	Required	Level 6	1 (0+1)	Program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
				PHL 401 PHC 401		
	PHCL 407	Pharmacotherapy-VI	Required	Level 6 PHL 401 PHC 401	2 (2+0)	Program
	PHL 402	Antimicrobial agents	Required	Level 6	2 (2+0)	Program
	PHL 403	Toxicology	Required	Level 6 PHT 401	2 (2+0)	Program
Summer	TR 401	Pharmacy Training-III 250 Hours (Hospital Pharmacy)	Required	Level 7 TR 302	2 (0+2)	Program
Level 9	PHCL 408	Pharmacoeconomics	Required	Level 7	2 (2+0)	Program
	PHCL 409	Social and behavioral Pharmacy	Required	Level 7	2 (2+0)	Program
	PHCL 410	Clinical Pharmacokinetics	Required	Level 7 PHCL 405 PHCL 406 PHCL 407 PHL 402	2 (2+0)	Program
	PHCL 411	Pharmacotherapy-VII	Required	Level 7 PHL 402	3 (2+1)	Program
	PHCL 412	Pharmacy Regulations & Ethics	Required	Level 7	2 (2+0)	Program
	PHCL 413	Health informatics	Required	Level 7 TR 401	1 (1+0)	Program
	PHL 406	Pharmacology-IV	Required	PHL 402	2 (2+0)	Program
		Free course	Elective	Level 7	2 (2+0)	Program
Level 10	PHG 403	Dietary supplement	Required	Level 8	2 (2+0)	Program
	PHCL 414	Pharmacotherapy-VIII	Required	Level 8 PHL 406	3 (2+1)	Program
	PHCL 415	Pharmacy Management & Marketing	Required	Level 8	2 (2+0)	Program
	PHCL 416	Medication Safety	Required	Level 8	2 (2+0)	Program
	PHCL 417	Literature Evaluation	Required	Level 8 PHCL 408 PHCL 409	2 (2+0)	Program
	PHARM 401	Research project ^s	Required	Level 9	3 (0+3)	Program
		Free course	Elective	Level 8	2 (2+0)	Program
Level 11	TR 410	Internal medicine-I	Required	Level 10	3 (0+3)	Program
	TR 411	Internal medicine-II	Required		3 (0+3)	Program
	TR 412	Acute Care	Required		3 (0+3)	Program
		Elective	Elective		3 (0+3)	Program
		Elective	Elective		3 (0+3)	Program
Level 12	TR 413	Ambulatory Care*	Required	Level 10	3 (0+3)	Program
	TR 414	Advanced Pharmacy Practice*	Required		3 (0+3)	Program
		Elective	Elective		3 (0+3)	Program
		Elective	Elective		3 (0+3)	Program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
		Elective	Elective		3 (0+3)	Program

* Include additional levels if needed

** Add a table for each track (if any)

\$ PHARM 401: will be taken starting level 10 and end in level 12

- The rotation will start during the summer.
- Student will take 5 core rotations, and five elective rotations from the followings:

Rotations list "APPE"

TR 415	Internal medicine-III	3 (0+3)
TR 416	Internal medicine-IV	3 (0+3)
TR 417	Geriatric medicine	3 (0+3)
TR 418	Infectious disease	3 (0+3)
TR 419	Pain Management	3 (0+3)
TR 420	Transplantation	3 (0+3)
TR 421	Nephrology	3 (0+3)
TR 422	Hematology/ oncology	3 (0+3)
TR 423	Psychiatric	3 (0+3)
TR 424	Pediatric medicine	3 (0+3)
TR 425	Neonatal Intensive Care	3 (0+3)
TR 426	Drug Information	3 (0+3)
TR 427	Medication Safety	3 (0+3)
TR 428	Community Pharmacy	3 (0+3)
TR 429	Industrial and company	3 (0+3)
TR 430	Regulatory	3 (0+3)

College of Dentistry & Pharmacy

Buraydah Colleges,

P.O. Box 31717 | Buraydah 51418

Kingdom of Saudi Arabia

www.bpc.edu.sa

Dean office,

Phone number: 0163800085, Ext Number: 301

Email: Dean_PD@bpc.edu.sa

Vice Dean office,

Phone number: 0163800085, Ext Number: 339

Email: ViceDean_DP@bpc.edu.sa

Program Director (Pharmaceutical Sciences) office,

Phone number: 0163800085, Ext Number: 422

Email: majid.ahmad@bpc.edu.sa