



College of Dentistry & Pharmacy

Program:	Bachelor's in Pharmaceutical sciences (B.Pharm)
Document:	Study Plan (New)

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 pharmacists with such degree in improving patient care, minimizing drug adverse outcomes, and reducing health expenditure. In addition, B.Pharm 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: 167 hrs.
5. Professional Occupations/Jobs: Pharmacist in: Industry, Education, Community, Regulation, and Hospital.
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 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. (Mission alignment matrix attached)
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 community pharmacy practice by providing accurate and relevant recommendations for self-care medication and cosmetic
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	Able to operate within a quality and marketing management framework.
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.
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 Curriculum Structure

Program Structure	Required/ Elective	No. of courses	Credit Hours	Percentage
Institution Requirements	Required	10	27	16.2%
	Elective	0	0	0%
College Requirements	Required	5	14	8.4%
	Elective	0	0	0%
Program Requirements	Required	52	114	68.3%
	Elective	2	4	2.4%
Capstone Course/Project	Required	1	3	1.8%
Field Experience/ Internship	Required	3	5	3.0%
Others		0	0	0%
Total		73	167	100%

D. Program Study Plan

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirement (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	Intro to Islamic Culture	Required		2	Institution
	ARB 101	Linguistic Skills	Required		2	Institution
	PHT 250	Pharmaceutics-I	Required	Level 1 and 2	3 (2+1)	Program
	PHL 250	Biochemistry-I	Required		2(2+0)	Program
	PHSL 115	Principles of Physiology	Required		3 (3+0)	College
	PHC 250	Pharmaceutical Organic Chemistry	Required		3 (2+1)	Program
	ANAT 114	Principles of Anatomy	Required		3 (2+1)	College
Level 4	IC102	Islam and Community Building	Required	IC 101	2	Institution
	PHT 252	Pharmaceutical Microbiology	Required	Level 1 & 2	3 (2+1)	Program
	PHL 253	Biochemistry-II	Required	PHL 250	2 (2+0)	Program
	PHL 254	Physiology-II	Required	PHSL 115	2 (2+0)	Program
	PHC 251	Pharmaceutical Analytical Chemistry	Required	Level 1 and 2	3 (2+1)	Program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirement (Institution, College or Department)
	TR 250	Pharmacy Training-I	Required	Level 1 & 2	1 (0+1)	Program
	PHC 252	Medicinal Chemistry I	Required	PHC 250	2 (2+0)	Program
Level 5	IC103	Economic System in Islam	Required	IC 102	2	Institution
	PHT 350	Pharmaceutics-II	Required	Level 3	3 (2+1)	Program
	PHT 351	Immunology	Required	Level 3 PHL 253	2 (2+0)	Program
	PHG 350	Pharmacognosy-I	Required	Level 3	3 (2+1)	Program
	PHL 350	Pharmacology-I	Required	Level 3	3 (2+1)	Program
	PHC 350	Medicinal Chemistry-II	Required	Level 3 PHC 252	2 (2+0)	Program
	PHCL 350	Introduction to Pathophysiology	Required	Level 3 PHL 254	2 (2+0)	Program
	PHCL 357	Drug information	Required	Level 3 TR 250	2 (1+1)	Program
Level 6	IC104	Political System in Islam	Required	IC 103	2	Institution
	PHCL 351	Self-care and community Pharmacy	Required	Level 4 Level 5	2 (1+1)	Program
	PHL 351	Pharmacology-II	Required	Level 4 PHL 350	2 (2+0)	Program
	PHC 351	Medicinal Chemistry-III	Required	Level 4	3 (2+1)	Program
	PHCL 354	Pharmacotherapy-I	Required	Level 4 PHL 350 PHC 350	2 (2+0)	Program
	PHCL 355	Pharmacy Practice Lab I	Required	Level 4 PHL 350 PHC 350	1 (0+1)	Program
	PHCL 356	Pharmacotherapy-II	Required	Level 4 PHL 350 PHC 350	2 (2+0)	Program
	PHT 352	Biopharmaceutics & Pharmacokinetics	Required	Level 4	3 (2+1)	Program
Summer	TR 351	Pharmacy Training-II 250 Hours (Community Pharmacy)	Required	Level 5 PHCL 351	2 (0+2)	Program
Level 7	ARB 103	Arabic Writing	Required	ARB 101	2	Institution
	PHT 450	Sterile & Parental Preparations	Required	Level 5 PHT 352	2 (2+0)	Program
	PHCL 450	Pharmacotherapy-III	Required	Level 5 PHL 351 PHC 351	2 (2+0)	Program
	PHCL 455	Pharmacy Practice Lab II	Required	Level 5 PHL 351 PHC 351	1 (0+1)	Program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirement (Institution, College or Department)
	PHCL 451	Pharmacotherapy-IV	Required	Level 5 PHL 351 PHC 351	2 (2+0)	Program
	PHL 450	Pharmacology-III	Required	Level 5	2 (2+0)	Program
	PHC 450	Medicinal Chemistry-IV	Required	Level 5	2 (2+0)	Program
	PHG 450	Pharmacognosy-II	Required	Level 5	3 (2+1)	Program
Level 8	PHCL 453	Research Design & Pharmacoepidemiology	Required	Level 6 TR 351	3 (2+1)	Program
	PHT 451	Pharmaceutical Biotechnology	Required	Level 6 PHT 450	2 (2+0)	Program
	PHG 460	Pharmacognosy-III	Required	Level 6 PHG 450	1 (1+0)	Program
	PHCL 460	Pharmacotherapy-V	Required	Level 6 PHL 450 PHC 450	2 (2+0)	Program
	PHCL 456	Pharmacy Practice Lab III	Required	Level 6 PHL 450 PHC 450	1 (0+1)	Program
	PHCL 461	Pharmacotherapy-VI	Required	Level 6 PHL 450 PHC 450	2 (2+0)	Program
	PHL 451	Antimicrobial agents	Required	Level 6	2 (2+0)	Program
	PHL 452	Toxicology	Required	Level 6 PHT 401	2 (2+0)	Program
	TR 450	Pharmacy Training-III 250 Hours (Hospital Pharmacy)	Required	Level 7 TR 351	2 (0+2)	Program
Level 9	PHCL 462	Pharmacoeconomics	Required	Level 7	2 (2+0)	Program
	PHCL 463	Pharmacy Regulations & Ethics	Required	Level 7	2 (2+0)	Program
	PHL 460	Pharmacology-IV	Required	Level 7 PHL 402	2 (2+0)	Program
	PHT 460	Cosmetics	Required	Level 7	1 (1+0)	Program
	PHG 463	Recent Approaches in Medicinal Plants Analyses	Required	Level 7 PHG 460	3 (2+1)	Program
	PHCL 465	Health informatics	Required	Level 7 TR 450	1 (1+0)	Program
	PHCL 464	Pharmacy Management	Required	Level 7	2 (2+0)	Program
		Free course	Elective		2 (2+0)	Program
Level 10	PHT 465	Pharmaceutical Quality Control and Good Manufacturing Practice(GMP)	Required	Level 8	3 (2+1)	Program
	PHG 465	Dietary supplement	Required	Level 8	2 (2+0)	Program
	PHT 490	Industrial Pharmacy	Required	Level 8	2 (2+0)	Program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirement (Institution, College or Department)
	PHC 495	Pharmaceutical Instrumental Analysis	Required	Level 8	3 (2+1)	Program
	PHCL 466	Pharmaceutical Marketing	Required	Level 8 PHCL 462	2 (2+0)	Program
	PHARM 450	Research project\$	Required	TR 450	3 (0+3)	Program
		Free course	Elective		2 (2+0)	Program

* Include additional levels if needed

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

PHARM 450: will be taken starting level 8 and end in level 10

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