

Study Plan for Bachelor Program - Study Plan Development and Updating Procedures/ Pharmacy Department	QF02/0407-4.0E
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Course Plan for Pharmacy (Bachelor Program) No.: (2021/2022)			
Approved by Deans Council by Decision (09/19/2020-2021) Dated (28/07/2021)			
(160) Credit Hours		Study System / Hybrid Program	
Type of Specialty	<input type="checkbox"/> Humanitarian	<input type="checkbox"/> Scientific / Technical	<input checked="" type="checkbox"/> Medical Sciences

Teaching Style	Percentage of Study Plan Hours / Number	Model Used (Synchronous: Asynchronous)
Complete E-learning Courses	16.875% / (27) C h	1:1 (For THUR. SAT.)
Blended Learning Courses (For Humanity)	40% - 60% Maximum / number () C h	1:1 (For SUN. TUE.) or (For MON. WED.)
Blended Learning Courses (for Scientific and Medical)	30.625% / (49) C h	1:1 (For SUN. TUE.) or (For MON. WED.)
Traditional Learning Courses (for Humanity)	20% Minimum / number () C h	2:0 For all academic divisions
Traditional Learning Courses (for Scientific and Medical)	52.500% / (84) C h	2:0 For All Academic Divisions

Important note: (The teaching patterns of the subjects are distributed at all academic levels in the program)

Program Vision: Graduating students who are specialized and competent in the various fields of Pharmacy, equipped with the knowledge, skills and competencies necessary to provide pharmaceutical care, and supplying the community with pharmacists capable of competing in the local and global labor market.

Program Mission and Objectives:

1. Preparing and qualifying students with the knowledge, skills and competencies related to the pharmaceutical sciences, essentials and approaches for pharmacy practice and care, pharmaceutical product manufacturing, and personal and professional development.
2. Reaching more effective Pharmacy learning in line with the needs of the labor market and the local and global community, using modern learning and teaching methods and technologies.
3. Promoting the principle of self-learning and continuous professional development to keep pace with global changes related to the practice of the Pharmacy profession.
4. Continuously developing the Pharmacy program by employing feedback results from graduates, employers, and faculty members, along with the continuous follow-up of scientific developments in the various fields of Pharmacy.
5. Comprehensive knowledge of the legal and ethical aspects of pharmacy practice and care and contributing to raising health awareness in the community to ensure optimal use of medicines.

Program Learning Outcomes (MK= Main Knowledge, MS= Main Skills, MC= Main Competencies)

Main Knowledge	
The student should be able to:	
MK1	Explore the basic sciences of Pharmacy.
MK2	Outline the chemical sciences related to drug design and development.
MK3	Implement knowledge in the medical sciences to pharmaceutical practice and care.
Main Skills	
The student should be able to:	
MS1	Provide pharmaceutical care to individuals and the community based on the latest treatment guidelines.
MS2	Employ creative thinking to find the appropriate solutions, for identified health problems, in collaboration with other health care providers.
MS3	Communicate professionally with patients, other healthcare providers, and the community.
MS4	Implement optimum pharmaceutical compounding procedures and quality control measures to produce an effective and safe medicine

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Main Competencies	
The student should be able to:	
MC1	Manage patients' care and plan prevention and treatment approaches to enhance the health of the individual and the community.
MC2	Educate patients and health care providers, taking into account their social cultural differences, to achieve the patient's health interests.
MC3	Take responsibility by continuously developing professional and personal performance.

Teaching Style			Course No.	Course Name	Credit Hours	Theory Hours	Practical Hours	Prerequisite *Co-requisite	Indicative	
Fully Electronic Learning	Blended Learning	Traditional Learning							Semester	Year
1. Requirements (27) Credit Hours										
1.1 Mandatory Requirement (21) Credit Hours										
.			0420151	National Education	3	3	0	-	1	1
.			0420261	Entrepreneurship and Innovation	3	3	0	-	1	1
.			0420115	Communication Skills in Arabic	3	3	0	Remedial Arabic Language	2	1
.			0420123	Communication Skills in English	3	3	0	Remedial English Language	2	1
.			0420241	Leadership and Social Responsibility	3	3	0	-	1	2
.			0420171	Life Skills	3	3	0	-	2	2
.			0420101	Military Sciences	3	3	0	-	2	5
1.2 University Elective Requirements (06) Credit Hours										
.			0420134	Sports and Health	3	3	0	-	2	2
.			0420142	Human Civilization	3	3	0	-	2	2
.			0420172	Digital Skills	3	3	0	Remedial Computer Skills	2	2
.			0420341	Principles of German Language	3	3	0	-	2	2
.			0420112	Islamic Culture	3	3	0	-	1	5
.			0420201	First Aid	3	3	0	-	1	5
.			0420253	Development and Environment	3	3	0	-	1	5
.			0420155	Law in Life	3	3	0	-	1	2
.			0420392	Principles of Psychology	3	3	0	-	1	5

Teaching Style			Course No.	Course Name	Credit Hours	Theory Hours	Practical Hours	Prerequisite *Co-requisite	Indicative	
Fully Electronic Learning	Blended Learning	Traditional Learning							Semester	Year
2. Faculty Requirements (25) Credit Hours										
		.	0420820	General Chemistry for pharmacy students	3	3	0	-	1	1
		.	0420821	General Chemistry Lab	1	0	3	* General Chemistry for pharmacy students	1	1
		.	0420818	Biology for pharmacy students	3	3	0	-	1	1
		.	0201112	Pharmaceutical Organic Chemistry (1)	3	3	0	General Chemistry for pharmacy students	2	1
		.	0201133	Anatomy and Physiology (1)	3	3	0	Biology for pharmacy students	2	1
		.	0201280	Anatomy and	3	3	0	Anatomy and Physiology (1)	1	2

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Fully Electronic Learning	Blended Learning	Traditional Learning							Semester	Year
				Physiology (2)						
		.	0201281	Anatomy and Physiology Lab	1	0	3	Anatomy and Physiology (1) + *Anatomy and Physiology (2)	1	2
	.		0201239	Pathophysiology	3	3	0	Anatomy and Physiology (2)	2	2
	.		0201438	Evidence-Based Practice	3	3	0	Biopharmaceutics and Pharmacokinetics + Pharmacology (3) + *Therapeutics (1)	2	4
	.		0201547	Pharmaceutical Ethics and Law	2	2	0	Regulatory Affairs	1	5

Teaching Style			Course No.	Course Name	Credit Hours	Theory Hours	Practical Hours	Prerequisite *Co-requisite	Indicative	
Fully Electronic Learning	Blended Learning	Traditional Learning							Semester	Year

3. Major Requirements (108) Credit Hours

3.1 Mandatory Requirements (99) Credit Hours

	.		0201111	Physical Pharmacy	2	2	0	General Chemistry	2	1
	.		0201210	Analytical Chemistry	2	2	0	Physical Pharmacy	1	2
		.	0201212	Pharmaceutical Organic Chemistry Lab	1	0	3	General Chemistry Lab + Pharmaceutical Organic Chemistry (1) + *Pharmaceutical Organic Chemistry (2)	1	2
		.	0201216	Pharmaceutical Organic Chemistry (2)	3	3	0	Pharmaceutical Organic Chemistry (1)	1	2
		.	0201237	Pharmaceutical Microbiology	3	3	0	Anatomy and Physiology (1)	1	2
		.	0201238	Pharmaceutical Microbiology Lab	1	0	3	Anatomy and Physiology (1) + *Pharmaceutical Microbiology	1	2
		.	0201219	Biochemistry	3	3	0	Pharmaceutical Organic Chemistry (2) + Anatomy and Physiology (2)	2	2
		.	0201220	Pharmaceutics	3	3	0	Analytical Chemistry	2	2
	.		0201224	Pharmaceutical Dosage Forms (1)	2	2	0	Pharmaceutics	1	3
		.	0201310	Medicinal Chemistry (1)	2	2	0	Pharmaceutical Organic Chemistry (2) + *Pharmacology (1)	1	3
		.	0201330	Pharmacology (1)	2	2	0	Pathophysiology	1	3
	.		0201336	Immunology	2	2	0	Pharmaceutical Microbiology + Pathophysiology	1	3
		.	0201339	Drug Information and Health Informatics	1	0	3	Pathophysiology + *Pharmacology (1)	1	3
		.	0201360	Instrumental Analysis	3	3	0	Analytical Chemistry + Pharmaceutical Organic	1	3

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Fully Electronic Learning	Blended Learning	Traditional Learning							Semester	Year
								Chemistry (2)		
		.	0201361	Pharmaceutical Analysis Lab	1	0	3	Pharmaceutical Organic Chemistry Lab + *Instrumental Analysis	1	3
	.		0201380	Clinical Biochemistry and Clinical Nutrition	3	3	0	Biochemistry + Pathophysiology	1	3
	.		0201362	Medicinal Chemistry (2)	3	3	0	Medicinal Chemistry (1) + *Pharmacology (2)	2	3
		.	0201363	Medicinal Chemistry Lab	1	0	3	Pharmaceutical Analysis Lab + *Medicinal Chemistry (2)	2	3
		.	0201364	Chemistry of Natural Products	3	3	0	Instrumental Analysis + Medicinal Chemistry (1)	2	3
	.		0201370	Pharmaceutical Dosage Forms (2)	2	2	0	Pharmaceutical Dosage Forms (1)	2	3
		.	0201371	Dispensing Lab	1	0	3	Pharmaceutical Dosage Forms (1) + *Pharmaceutical Dosage Forms (2)	2	3
	.		0201381	Pharmacology (2)	3	3	0	Pharmacology (1)	2	3
		.	0201382	Pharmacology Lab	1	0	3	Pharmacology (1) + *Pharmacology (2)	2	3
		.	0201383	Over the Counter Medicines	1	1	0	Pharmacology (1)	2	3
		.	0201384	Pharmacy Practice Lab (1)	1	0	3	Pharmacology (1) + *Over the Counter Medicines	2	3
		.	0201372	Biopharmaceutics and Pharmacokinetics	3	3	0	Pharmacology (1) + Pharmaceutical Dosage Forms (2)	1	4
		.	0201373	Biopharmaceutics and Pharmacokinetics Lab	1	0	3	Pharmacology (1) + Pharmaceutical Dosage Forms (2) + *Biopharmaceutics and Pharmacokinetics	1	4
		.	0201416	Medicinal Chemistry (3)	3	3	0	Medicinal Chemistry (2) + *Pharmacology (3)	1	4
		.	0201433	Pharmacology (3)	3	3	0	Pharmaceutical Microbiology + Pharmacology (2)	1	4
	.		0201434	Toxicology	2	2	0	Pharmacology (1)	1	4
		.	0201436	Community Pharmacy Training (1)	3	0	**	Over the Counter Medicines + Pharmacy Practice Lab (1)	1	4
	.		0201442	Phytotherapy	2	2	0	Pharmacology (1) + Chemistry of Natural Products	1	4
	.		0201426	Cosmetic Products	2	2	0	Pharmaceutical Dosage Forms (2)	2	4
		.	0201437	Therapeutics (1)	3	3	0	Biopharmaceutics and Pharmacokinetics + Pharmacology (3)	2	4
		.	0201439	Community Pharmacy Training (2)	3	0	**	Pharmacology (3) + Community Pharmacy Training (1)	2	4

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Fully Electronic Learning	Blended Learning	Traditional Learning							Semester	Year
		.	0201443	Pharmaceutical Biotechnology	3	3	0	Immunology	2	4
	.		0201444	Pharmaceutical Marketing	2	2	0	Community Pharmacy Training (1)	1	5
		.	0201520	Pharmaceutical Regulatory Affairs	1	0	3	Community Pharmacy Training (2)	1	5
		.	0201525	Pharmaceutical Technology	3	3	0	Pharmaceutical Dosage Forms (2)	1	5
		.	0201526	Pharmaceutical Technology Lab	1	0	3	Dispensing Lab + *Pharmaceutical Technology	1	5
		.	0201532	Clinical Cases Lab	1	0	3	Therapeutics (1)	1	5
		.	0201535	Therapeutics (2)	3	3	0	Therapeutics (1)	1	5
	.		0201523	Pharmacoeconomics	2	2	0	Therapeutics (1)	2	5
	.		0201537	Therapeutics (3)	3	3	0	Therapeutics (2)	2	5
		.	0201538	Pharmacy Practice Lab (2)	1	0	3	Therapeutics (2) + *Therapeutics (3)	2	5
	.		0201539	Global and Public Health in Pharmacy	1	1	0	Therapeutics (2) + *Therapeutics (3)	2	5
	.		0201548	Drug Delivery	3	3	0	Pharmaceutical Technology	2	5
3.2 Electives Requirements (09) Credit Hours										
	.		0201450	Selected Topics in Pharmaceutics	3	3	0	Pharmaceutical Dosage Forms (2)	2	4
	.		0201452	Pharmaceutical Communication Skills	3	3	0	Pharmacology (1)	2	4
	.		0201454	Drug Discovery and Drug Design	3	3	0	Pharmaceutical Organic Chemistry (2) + Pharmacology (1)	2	4
	.		0201455	Selected Topics in Clinical Nutrition	3	3	0	Clinical Biochemistry and Clinical Nutrition	2	4
	.		0201456	Selected Topics in Pharmaceutical Analysis	3	3	0	Instrumental Analysis	2	4
	.		0201457	Selected Topics in Microbiology	3	3	0	Pharmaceutical Microbiology	2	4
	.		0201550	Drug Informatics and Computational Biology	3	3	0	Medicinal Chemistry (3) + Pharmacology (3)	1	5
	.		0201553	Clinical Toxicology	3	3	0	Toxicology	1	5
	.		0201554	Selected Topics in Pharmacology	3	3	0	Pharmacology (3)	1	5
	.		0201551	Quality Control	3	3	0	Pharmaceutical Technology	2	5
	.		0201556	Clinical Biostatistics	3	3	0	Pharmacology (3)	2	5
	.		0201559	Gene and Protein Therapy	3	3	0	Pharmaceutical Biotechnology	2	5

****: 160 hours of training in pharmacies**

(The end of the study plan for the major students)

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Subjects Taught in the Major for Students of Other Majors (university requirements, college requirements, major family requirements, support requirements)

Teaching Style			Course No.	Course Name	Credit Hours	Theory Hours	Practical Hours	The Type of Requirement and The Recipient
Fully Electronic Learning	Blended Learning	Traditional Learning						
.	.	.	0201163	Biochemistry for Nurses	2	2	0	Faculty Requirement for Nursing
.	.	.	0201261	Pathophysiology for Nurses	3	3	0	Faculty Requirement for Nursing
.	.	.	0201263	Microbiology for Nurses	2	2	0	Faculty Requirement for Nursing
.	.	.	0201161	Anatomy for Nurses	3	3	0	Supporting Requirement for Nursing
.	.	.	0201162	Physiology for Nurses	3	3	0	Supporting Requirement for Nursing
.	.	.	0201262	Pharmacology for Nurses	3	3	0	Supporting Requirement for Nursing
.	.	.	0201143	General Chemistry for Engineering	3	3	0	Supporting Requirement for Civil Engineering and Infrastructure and Mechanical Engineering
.	.	.	0201144	Practical General Chemistry for Engineering	1	0	3	Supporting Requirement for Civil Engineering and Infrastructure and Mechanical Engineering
.	.	.	0201177	Biochemistry	1	1	0	Supporting Requirement for Physical Therapy
.	.	.	0201192	Nutrition for Physical Therapy	2	1	0	Supporting Requirement for Physical Therapy
.	.	.	0201290	Pathology	1	1	0	Supporting Requirement for Physical Therapy
.	.	.	0201391	Pharmacology	1	1	0	Supporting Requirement for Physical Therapy