

The curriculum of associate degree program in Pharmacy Specialization

The curriculum of associate degree program in “ Pharmacy” specialization consists of (72 credit hours) as follows:

Serial No.	Requirements	Credit Hours
First	University Requirements	12
Second	Program Requirements	18
Third	Specialization Requirements	42
Total		72



The curriculum of associate degree program in “Pharmacy” specialization

First: University requirements (12 credit hours) as follows:

Course No.	Course Title	Credit Hours	Weekly Contact Hours		Prerequisite
			Theoretical	Practical	
22001101	Arabic Language	3	3	-	
22002101	English Language	3	3	-	
21901100	Islamic Culture	3	3	-	
21702101	Computer Skills	3	1	4	
Total		12	10	4	

Second: Program requirements (18 credit hours) as follow:

Course No.	Course Title	Credit Hours	Weekly Contact Hours		Prerequisite
			Theoretical	Practical	
21301123	Medical Physics	3	3	-	
21301131	Biochemistry	2	2	-	
21301132	Biochemistry/ Practical	1	-	3	21301131*
21102111	Anatomy	3	3	-	
21102113	Physiology	3	3	-	21102111*
21102115	Medical sociology	3	3	-	
21102117	Medical terminology	3	3	-	
Total		18	17	3	

* Co-requisite



❖ تطبيق هذه الخطة الدراسية اعتباراً من بداية العام الجامعي 2009/2008

Third: Specialization Requirements (42 credit hours) as follows:

Course No.	Course Title	Credit Hours	Weekly Contact Hours		Prerequisite
			Theoretical	Practical	
21104111	Organic chemistry	3	2	3	
21104121	Microbiology	3	2	3	
21104131	Pathophysiology	3	3	-	21102113
21104141	Pharmacology 1	3	3	-	21102113
21104241	Pharmacology 2	3	3	-	21104141
21104242	Pharmacology 3	3	3	-	21104241
21104151	Pharmaceutics 1	3	3	-	
21104251	Pharmaceutics 2	3	3	-	21104151
21104252	Pharmaceutics 3	3	3	-	21104251
21104152	Pharmaceutics 1/ practical	1	-	3	21104151*
21104253	Pharmaceutics 2/ practical	1	-	3	21104251*
21104254	Pharmaceutics 3/ practical	1	-	3	21104252*
21104161	Pharmacognosy	2	2	-	-
21104212	Phytochemistry	2	2	-	21104161
21113101	First aids	3	2	3	
21104271	Toxicology	2	2	-	21104141
21104200	Field Training	3	-	-	-
Total		42	33	18	

* Co-requisite

** Equivalent to 280 training hours

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Guiding Plan

First Year					
First Semester			Second semester		
Course No.	Course Title	Credit Hours	Course No.	Course Title	Credit Hours
21102111	Anatomy	3	21104152	Pharmaceutics/ practical 1	1
21102113	Physiology	3	21104151	Pharmaceutics 1	3
21104111	Organic chemistry	3	21104141	Pharmacology 1	3
21102117	Medical terminology	3	21301131	Biochemistry	2
22002101	English language	3	21301132	Biochemistry/ practical	1
21301123	Medical Physics	3	21104131	Pathophysiology	3
			21901100	Islamic culture	3
			21104161	Pharmacognosy	2
Total		18	Total		18

Second Year					
First Semester			Second semester		
Course No.	Course Title	Credit Hours	Course No.	Course Title	Credit Hours
22001101	Arabic language	3	21104242	Pharmacology 3	3
21702101	Computer Skills	3	21104252	Pharmaceutics 3	3
21104212	Phytochemistry	2	21104254	Pharmaceutics 3/ practical	1
21104241	Pharmacology 2	3	21104271	Toxicology	2
21104251	Pharmaceutics 2	3	21113101	First aids	3
21104253	Pharmaceutics 2/ practical	1	21104200	Field training	3
21104121	Microbiology	3	21102115	Medical sociology	3
Total		18	Total		18

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Brief Course Description

Course Title	Course No	Credit Hours (Theoretical /Practical)
لغة عربية	22001101	(0, 3) 3
<p>تتضمن هذه المادة مجموعة من المهارات اللغوية بمستوياتها وأنظمتها المختلفة: الصوتية، والصرفية، والنحوية، والبلاغية، والمعجمية، والتعبيرية، وتشتمل نماذج من النصوص المشرقة: قرآنية، وشعرية، وقصصية، من بينها نماذج من الأدب الأردني؛ يتوخى من قراءتها وتدوقها وتحليلها تحليلاً أدبياً؛ تنمية الذوق الجمالي لدى الطلاب الدارسين.</p>		
لغة إنجليزية	22002101	(0, 3) 3
<p>English is a general course. It covers the syllabuses of listening, speaking, reading, writing, pronunciation and grammar, which are provided in a communicative context. The course is designed for foreign learners of the English language, who have had more than one year of English language study. The extension part would be dealt with in the class situation following the individual differences.</p>		
ثقافة إسلامية	21901100	(0, 3) 3
<ol style="list-style-type: none"> 1. تعريف الثقافة الإسلامية وبيان معانيها وموضوعاتها والنظم المتعلقة بها - وظائفها وأهدافها 2. مصادر ومقومات الثقافة الإسلامية والأركان والأسس التي تقوم عليها . 3. خصائص الثقافة الإسلامية . 4. الإسلام والعلم ، والعلاقة بين العلم والإيمان 5. التحديات التي تواجه الثقافة الإسلامية . 6. رد الشبهات التي تثار حول الإسلام . 7. الأخلاق الإسلامية والآداب الشرعية في إطار الثقافة الإسلامية 8. النظم الإسلامية . 		
مهارات حاسوب	21702101	3 (1, 4)
<p>An introduction to computing and the broad field of information technology is given. Topics covered include the basic structure of digital computer system, microcomputer, operating systems, application software, data communication and networks, and the internet. Hands-on learning emphasizes Windows xp , MS-office2000, and the internet.</p>		

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Medical Physics	21301123	3(3,0)
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This course is designed to acquaint the students with knowledge about forces and units of forces, energy changes in the body, heat loss from the body, and breathing mechanism. It helps the students acquire knowledge about electric signals of the body, general properties of sound in the body as a drum (percussion in medicine) and vision defects and corrections. Moreover, it makes the students recognize sources of radioactivity, nuclear medicine imaging devices, and the dose in nuclear medicine and therapy with radioactivity.

Biochemistry	21301131	2(2,0)
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Biochemistry course introduces the basic essential information to the college students to know the biomaterials, which we deal with during our daily activities, classification, chemical structure, reactions and how the human body metabolizes such biomolecules work.

Biochemistry/ practical	21301132	1(0,3)
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This course deals with performing practical applications for the different classes of biomolecules including carbohydrates, lipids and proteins.

Anatomy	21102111	3(3,0)
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The course deals with structural anatomy of the body as a whole to provide the students with knowledge of the structure of the body of the human being. This course deals all the systems of the body in an attempt to make it easy for the paramedical students to recognize the organs of the body.

Physiology	21102113	3(3,0)
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This course is designed to provide the students with the knowledge of the functions performed by the various parts and organs of the human body. It also deals with the integrity of the body systems as a whole to let the student recognize the physiological changes that happen within the human body and how the body systems work

Medical sociology	21102115	3 (3,0)
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يتناول هذا المساق المضمون المعرفي لعلم الاجتماع من حيث الفكر الاجتماعي والرعاية الصحية. فيقدم عرضاً لمفاهيم: الصحة، المرض، الرعاية الصحية، الخدمة الصحية والسلوك المرضي. وكذلك يتناول الدور الذي يمارسه المجتمع في الخدمة الصحية والسياق الاجتماعي للصحة والمرض وانعكاسات مفهوم الصحة والمرض على الخدمات الصحية. ثم يتناول المساق أهم الميادين الدراسية في العلوم الاجتماعية والسلوكية وذلك لفهم السلوك الاجتماعي على المستوى النظري والعملية من التطرق إلى مفاهيم: المعايير، الاتجاهات و القيم.

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Medical terminology	21102117	3(3,0)
<p>This course is designed to develop a working knowledge of the language of medicine to let students acquire word building skills by learning word roots , suffixes, prefixes and abbreviations. By relating terms to body systems, students should identify the proper use of words in a medical environment. Knowledge of medical terminology enhances the students' ability to communicate and practice his/her work successfully on the purpose of providing health services.</p>		
Organic chemistry	21104111	3(2,3)
<p>This course aimed to understand the most important functional group in organic compounds, their nomenclature, chemical reactions involved, identification, and the differences between their properties and how they react with each other.</p>		
Microbiology	21104121	3(2,3)
<p>This course deals with the most important characteristics of microorganisms and the most important diseases that they cause, methods of infection, prophylaxis , concepts of immunity, vaccination, bacterial resistance to antibiotics, basics of disinfection and sterilization with clarification of mechanisms of action of antibiotics, most important uses of them in addition to prophylactic treatment of some diseases.</p>		
Pathophysiology	21104131	3(3,0)
<p>This course focuses on the Physiologic changes that occur due to internal and external environmental stresses, pathological processes and the response that produce signs and symptoms. Underlying concepts and principles common to health deviations in all major physiological systems are presented. The content is based on common health problems, including the special health needs of children and the elderly The student will explore a variety of concepts of path physiology, which will be utilized in clinical decision making and action related to nursing courses.</p>		
Pharmacology 1	21104141	3(3,0)
<p>Drugs (specifications, effects, mechanisms of action side effects) role in treatment and diagnosis of drugs. Drugs effecting Autonomic Nervous system, cardiovascular system (Hypotensive agents, anti Angina pectoris, Anti Arrhythmias, Anticoagulants, haemostatic agents, hypolipidimics, heart failure drugs .</p>		
Pharmacology 2	21104241	3(3,0)
<p>To study drugs (mechanism of action, therapeutics pharmacological effects, precaution, side effect, toxicity) of central nervous system, Respiratory system, Gastrointestinal system ,anti-histamines ,Skin and Nutrients (vitamins and minerals).</p>		

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Pharmacology 3	21104242	3(3.0)
Study of chemotherapy ,Antibiotics, Anti T. B , Anti cancer Anti amoebic , Anti malarial , Anti thelmintics , endocrine system, reproductive system.		
Pharmaceutics 1	21104151	3(3.0)
Introduction to pharmaceutics and its definitions, Drug prescription and its contents, calculations, pharmaceutical measurements, weighing and measuring volumes, Introduction to physical Pharmacy by studying the phases of substance (solid, liquid, gas) , biological and dynamical pharmacy.		
Pharmaceutics 2	21104251	3(3, 0)
introduction to physical pharmacy, properties &specification of each phase. Also the course study all the Pharmaceutical (liquid, semi solid, gas)dosage forms including their properties &deterioration features.		
Pharmaceutics 3	21104252	3(3,0)
To study solid pharmaceutical dosage forms , drug stability, packaging ,labeling ,and incompatibilities. Also this course introduce Bases of good manufacturing practice.		
Pharmaceutics 1/ Practical	21104152	1(0, 3)
It is a practical course includes preparation of liquid dosage forms (solutions, syrups, spirits, tinctures)		
Pharmaceutics 2/ practical	21104253	1(0,3)
It is a practical course includes preparing emulsions, eye drops, ear drop, lotions, Dusting powders, effervescent powder and granules, lozenges.		
Pharmaceutics 3/ practical	21104254	1(0,3)
It is a practical course includes preparing semi solid dosage forms such as liniments , lotions, ointments , creams, suppositories, shampoo.		
Pharmacognosy	21104161	2(2, 0)
Definition, history, and scope of medicinal plants, studying plants of medicinal importance , histological study of the used parts ,systems of medicinal plants classification ,methods of cultivating and collecting and preparing medicinal plants, Photosynthesis		
Phytochemistry	21104212	2(2,0)
Study medical plants concerning their contents of active ingredients (sugars glycosides, alkaloids, tannins, resins, fixed oil, volatile oils waxes, balsams)		

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First aids	21113101	3(2,3)
<p>This course is designed to introduce the student into emergency medical care providing him with the knowledge and skills that make him able to do patient assessment and choose first Aid priorities and the more suitable instruments which allow him to manage Airway Obstruction, shock and bleeding, soft-Tissue injuries (wounds), soft tissue Injuries (Burns) trauma and fractures, medical emergency (Allergies Reaction) and medical emergency (Poisoning) and, environmental emergency, and altered mental status, It also introduces him to the skills needed for doing CPR.</p>		
Toxicology	21104271	2(2,0)
<p>A teaching course which deals with poisoning and types of materials which may lead to toxicity either drugs, chemicals, synthetic products, natural poisons, and the suitable antidotes.</p>		
Field training	21104200	3(280 training hours)
<p>A training course in which the student practice pharmacy profession. The scope of pharmacy practice includes controlling inventory, compounding, dispensing medications, and patient education. Also students discipline of pharmacy profession in an institutional or a non institutional pharmacy which includes controlling inventory, compounding, dispensing of medications, and patient education</p>		

