

## **UNIVERSITY REQUIREMENTS**

### **University Obligatory Courses (15 Cr.Hr.\*)**

<b>Course Code</b>	<b>Elective Name</b>	<b>Pre-requisite(s)</b>
1021400	Communication Skills in Arabic Language (For Arabs), (3 Cr.Hr.)	
1021100	Islamic Culture (For Arabs), (3 Cr.Hr.)	
1141300	Innovation and Entrepreneurship (English) (3 Cr.Hr.)	After completing 60 Cr.Hr.
1041201	IT Fundamentals (3 Cr.Hr.)	
1031332	Statistics (Health Sciences), (3 Cr.Hr.)	

\*Cr.Hr.: Credit Hour(s)

### **University Optional Courses (15 Cr.Hr.)**

Students have to study five courses of the University optional courses (3 Cr.Hr. each), offered by the AU Unit of General Studies, and two of them must be “natural sciences” courses

## **COLLEGE OPTIONAL**

Students have to study one course of the following (3 Cr.Hr.)

<b>Course Code</b>	<b>Course Name</b>	<b>Pre-requisite(s)</b>
PHA407	Complementary and Alternative Medicine (CAM)	After 100 Cr.Hr.
PHA420	Phytotherapy	PHA326
PHA474	Arabic Language Competence in Pharmacy	After 100 Cr.Hr. & 1021400
PHA409	Pharmaceutical Technology Training	After 100 Cr.Hr.

# COLLEGE REQUIREMENTS

## First Year

### LEVEL 1

Course Code	Course Name	Cr.Hr.	Lec.	Tuto	Pr.	Pre-req.
PHA170	Introduction to Pharmacy	2	2			
PHA110	Pharmaceutical Organic Chemistry I	3	2		2	
PHA130	Principles of Human Anatomy and Physiology I	3	2		2	
1041201	IT Fundamentals (University Requirement)	3	2		2	
PHA120	Pharmaceutical Analysis I	3	2		2	
	University Requirement (Natural Sciences Course)	3				
	<b>Total Cr.Hr.</b>	<b>17</b>				

Lec.: Lecture; Tuto: Tutorial; Pr.: Practical; Pre-req.: Pre-requisite(s)

### LEVEL 2

Course Code	Course Name	Cr.Hr.	Lec.	Tuto	Pr.	Pre-req.
PHA102	Physical Pharmacy	4	3		2	
PHA113	Pharmaceutical Organic Chemistry II	3	2		2	PHA110
PHA131	Principles of Human Anatomy & Physiology II	3	2		2	PHA130
PHA115	Biochemistry I	2	2			PHA110
PHA172	Communication Skills in Pharmacy	2	2			
PHA121	Pharmaceutical Analysis II	3	2		2	PHA120
1021100	Islamic Culture (For Arabs) (University Requirement)	3	3			
	<b>Total Cr.Hr.</b>	<b>20</b>				

### SUMMER SEMESTER AFTER LEVEL 2

Course Code	Course Name	Cr.Hr.	Lec.	Tuto	Pr.	Pre-req.
	Optional Course (Univ. opt.)	3	3			
1021400	Communication Skills in Arabic Language (For Arabs) (University Requirement)	3	3			
	<b>Total Cr.Hr.</b>	<b>6</b>				

## Second Year

### LEVEL 3

Course Code	Course Name	Cr.Hr.	Lec.	Tuto	Pr.	Pre-req.
PHA200	Pharmaceutical Dosage Forms I	3	2		2	PHA120
PHA260	Pharmaceutical Microbiology and immunology I	2	2			PHA115
PHA230	Pharmacology I	3	2	2		PHA115, PHA131
PHA270	Principles of Pharmaceutical Care	3	2	2		PHA172
PHA216	Biochemistry II	3	2		2	PHA115
PHA222	Medicinal and Pharmaceutical Chemistry I	3	2		2	PHA113
PHA272	Introductory Practice Experience	1				PHA172
	<b>Total Cr.Hr.</b>	<b>18</b>				

### LEVEL 4

Course Code	Course Name	Cr.Hr.	Lec.	Tuto	Pr.	Pre-req.
PHA201	Pharmaceutical Dosage Forms II	3	2		2	PHA200
PHA231	Pharmacology II	3	2	2		PHA230
PHA223	Medicinal and Pharmaceutical Chemistry II	2	2			PHA222
PHA261	Pharmaceutical Microbiology and Immunology II	3	2		2	PHA260
PHA263	Pharm. Biotechnology	2	2			PHA260
PHA274	Therapeutics I	3	2	2		PHA270
PHA276	Drug Information & Literature Evaluation	3	2	2		PHA172
	<b>Total Cr.Hr.</b>	<b>19</b>				

### SUMMER SEMESTER AFTER LEVEL 4

Course Code	Course Name	Cr.Hr.	Lec.	Tuto	Pr.	Pre-req.
	Optional Course (University Optional Course)	3	3		2	PHA200
	Optional Course (University Optional Course)	3	3			
	<b>Total Cr.Hr.</b>	<b>6</b>				

## Third Year

### LEVEL 5

Course Code	Course Name	Cr.Hr.	Lec.	Tuto	Pr.	Pre-req.
PHA300	Pharmaceutical Technology	3	2		2	PHA201
PHA302	Biopharmaceutics & Pharmacokinetics I	3	2		2	PHA201
PHA305	Pharmaceutical Quality Assurance	3	2		2	PHA121, PHA201
PHA332	Pharmacology III	4	3	2		PHA231
PHA370	OTC Drugs and Products	4	3	2		PHA270
PHA375	Therapeutics II	3	2	2		PHA270
	<b>Total Cr.Hr.</b>	<b>20</b>				

### LEVEL 6

Course Code	Course Name	Cr.Hr.	Lec.	Tuto	Pr.	Pre-req.
PHA334	Chemotherapy	3	3			PHA332
PHA303	Biopharmaceutics and Pharmacokinetics II	3	2		2	PHA302
PHA376	Therapeutics III	3	2	2		PHA270
1141300	Innovation and Entrepreneurship (English) (University Requirement)	3	3			
PHA378	Pharmacy Management and Pharmacoeconomics	2	2			PHA276
PHA326	Pharmacognosy	3	3			After 80 Cr.Hr.
1031332	Statistics (Health Sciences) (University Requirement)	3	3			
	<b>Total Cr.Hr.</b>	<b>20</b>				

### SUMMER SEMESTER AFTER LEVEL 6

Course Code	Course Name	Cr.Hr.	Lec.	Tuto	Pr.	Pre-req.
	University Optional Course	3	3		2	PHA200
	<b>Total Cr.Hr.</b>	<b>3</b>				

## Fourth Year

### LEVEL 7

Course Code	Course Name	Cr.Hr.	Lec.	Tuto	Pr.	Pre-req.
PHA480	Pharmaceutical Marketing	2	2			PHA378
PHA482	Pharmacy Law and Ethics	2	2			PHA378
PHA478	Pharmacogenomics	2	2			PHA332
PHA484	Pharmacovigilance and Epidemiology	2	2			PHA378
PHA441	Principles and Practice of Toxicology	2	2			PHA332
	College Optional Course	3	3			After 100 Cr.Hr.
PHA450	Graduation Project	3				PHA378
	<b>Total Cr.Hr.</b>	<b>16</b>				

### LEVEL 8

Course Code	Course Name	Cr.Hr.	Lec.	Tuto	Pr.	Pre-req.
PHA490	Professional Experience Rotation -I	3				PHA370, PHA376
PHA491	Professional Experience Rotation II	3				PHA370, PHA376
PHA492	Professional Experience Rotation III	3				PHA370, PHA376
PHA493	Professional Experience Rotation IV	3				PHA370, PHA376
PHA494	Professional Experience Rotation V	3				PHA370, PHA376
	<b>Total Cr.Hr.</b>	<b>15</b>				

**Bachelor of Pharmacy Total Credit Hours: 160 Cr.Hr.**