

# Al-Baha University

## Faculty of Pharmacy

### Doctor of Pharmacy (Pharm.D) Program

#### Study Plan



### Faculty graduation requirements:

Requirement	Number of courses	Credit hours	Percentage
University requirements	6	12	5.6%
Health faculties requirements	3	6	2.8%
Program requirements	74	195	91.6%
Clinical training (Clerkship year)	4	35	---
Total required for graduation	87	213 + 35	100%

### University requirements:

Course title	Level	Credit hours
الثقافة الإسلامية – 1	1	2
تاريخ المملكة العربية السعودية	1	2
الثقافة الإسلامية – 2	2	2
أساسيات التحول الرقمي	2	2
المهارات اللغوية	3	2
التلاوة والهدايات القرآنية	3	2

### Health faculty's requirements:

Course title	Level	Credit hours
English Language-1	1	0
English Language-2	2	3
English Language-3	3	3

The following tables show the courses that will be studied in the various levels and the prerequisites for each, the contact hours and the training hours for clerkships.



## Year 1 Level 1

	Course No.	Course Title	Units				Prereq.
			Lec.	Pr.	Tot.	Cont.Hrs	
1	PHCL1002	Professional Communication Skills	2	-	2	2	-
2	ENGL1001	English Language-1	0	-	0	16	-
3	ISLM1001	الثقافة الإسلامية -1	2	-	2	2	-
4	HIST1001	تاريخ المملكة العربية السعودية	2	-	2	2	-
<b>Total</b>					<b>6</b>	<b>22</b>	

## Level 2

	Course No.	Course Title	Units				Prereq.
			Lec.	Pr.	Tot.	Cont. Hrs	
1	PHCG1003	Biology	2	1	3	4	-
2	PHCU1007	Mathematics	2	-	2	2	-
3	ENGL1002	English Language-2	3	-	3	8	English Language-1 (ENGL1001)
4	ISLM1002	الثقافة الإسلامية -2	2	-	2	2	-
5	PHCU1005	Medical Physics	2	-	2	2	-
6		أساسيات التحول الرقمي	2		2	2	
<b>Total</b>					<b>14</b>	<b>20</b>	

## Level 3

	Course No.	Course Title	Units				Prereq.
			Lec.	Pr.	Tot.	Cont. Hrs	
1	PHCH1010	Medical Terminology	2	-	2	2	-
2	PHCH1001	General Chemistry	2	1	3	4	-
3	ARAB1001	المهارات اللغوية	2	-	2	2	-
4	ISLM1003	التلاوة والهدايات القرآنية	2	-	2	2	-
5	ENGL1003	English Language-3	3	-	3	8	English Language-2 (ENGL1002)
<b>Total</b>					<b>12</b>	<b>18</b>	

	Credit	Contact
<b>Total year 1</b>	32	60



## Year 2 Level 4

	Course No.	Course Title	Units				Prereq.
			Lec.	Pr.	Tot.	Cont.Hrs	
1	PHCL1003	Anatomy and Histology	3	1	4	5	Biology (PHCG1003) Medical Terminology (1010)
2	PHCH1012	Pharmaceutical Organic Chemistry - 1	2	1	3	4	General Chemistry (PHCH1001)
3	PHCU1008	Pharmaceutical Calculations	2	-	2	2	Mathematics (PHCU1007)
4	PHCL1004	Pharmacy Orientation	2	-	2	2	-
5	PHCG1005	Pharmacognosy	3	1	4	5	Biology (PHCG1003)
<b>Total</b>					<b>15</b>	<b>18</b>	

## Level 5

	Course No.	Course Title	Units				Prereq.
			Lec.	Pr.	Tot.	Cont.Hrs	
1	PHCH1257	Pharmaceutical Organic Chemistry - 2	3	1	4	5	Pharmaceutical Organic Chemistry 1 (PHCH1012)
2	PHCH1258	Biochemistry-1	2	1	3	4	Pharmaceutical Organic Chemistry 1 (PHCH1012)
3	PHCH1256	Pharmaceutical Analytical Chemistry-1	2	1	3	4	General Chemistry (PHCH1001)
4	PHCL1255	Physiology-1	2	1	3	4	Anatomy and Histology (PHCL1003) Medical Physics (PHCU1005)
5	PHCU1250	Physical Pharmacy	2	-	2	2	Pharmaceutical Calculations (PHCU1008)
<b>Total</b>					<b>15</b>	<b>19</b>	

## Level 6

	Course No.	Course Title	Units				Prereq.
			Lec.	Pr.	Tot.	Cont.Hrs	
1	PHCL1256	Physiology-2	2	-	2	2	Physiology-1 (PHCL1255)
2	PHCL1257	Pathophysiology-1	3	1	4	5	Physiology-1 (PHCL1255)
3	PHCH1259	Pharmaceutical Analytical Chemistry-2	2	-	2	2	Pharmaceutical Analytical Chemistry-1 (PHCH1256)
4	PHCU1252	Pharmaceutics-1	3	1	4	5	Physical Pharmacy (PHCU1250)
5	PHCH1260	Biochemistry-2	2	-	2	2	Biochemistry-1 (PHCH1258)
<b>Total</b>					<b>14</b>	<b>16</b>	

<b>Total year 2</b>	<b>Credit</b> 44	<b>Contact</b> 53
---------------------	---------------------	----------------------



### Year 3 Level 7

	Course No.	Course Title	Units				Prereq
			Lec.	Pr.	Tot.	Cont. Hrs	
1	PHCL1510	Pathophysiology-2	2	-	2	2	Pathophysiology-1 (PHCL1257)
2	PHCU1502	Pharmaceutics-2	3	1	4	5	Pharmaceutics-1 (PHCU1252)
3	PHCG1504	Pharmaceutical Microbiology	2	1	3	4	Biology (PHCG1003)
4	PHCH1506	Clinical Biochemistry	2	1	3	4	Biochemistry-2 (PHCH1260)
5	PHCH1250	Pharmacology-1	3	1	4	5	Pathophysiology-1 (PHCL1257) Physiology-2 (PHCL1256)
<b>Total</b>					<b>16</b>	<b>20</b>	

### Level 8

	Course No.	Course Title	Units				Prereq
			Lec.	Pr.	Tot.	Cont.Hrs	
1	PHCH1251	Medicinal Chemistry-1	3	-	3	3	Pharmaceutical Organic Chemistry 2 (PHCH1257)
2	PHCU1750	Pharmaceutics-3	3	-	3	3	Pharmaceutics-2 (PHCU1502)
3	PHCG1501	Natural Products Chemistry	3	-	3	3	Pharmacognosy (PHCG1005) Pharmaceutical Analytical Chemistry-2 (PHCH1259)
4	PHCH1255	Pharmacology-2	3	1	4	5	Pharmacology-1 (PHCH1250) Pathophysiology-2 (PHCL1510)
5	PHCL1511	Community Pharmacy-1	1	1	2	3	Pharmacology-1 (PHCH1250)
<b>Total</b>					<b>15</b>	<b>17</b>	

### Level 9

	Course No.	Course Title	Units				Prereq.
			Lec.	Pr.	Tot.	Cont.Hrs	
1	PHCG1505	Immunology	3	-	3	3	Pharmaceutical Microbiology (PHCG1504)
2	PHCG1506	Complementary and Alternative Medicine	3	-	3	3	Natural Products Chemistry (PHCG1501)
3	PHCH1507	Medicinal Chemistry-2	3	1	4	5	Medicinal Chemistry-1 (PHCH1251)
4	PHCH1500	Pharmacology-3	3	-	3	3	Pharmacology-2 (PHCH1255)
5	PHCL1512	Community Pharmacy-2	1	1	2	3	Community Pharmacy-1 (PHCL1511)
<b>Total</b>					<b>15</b>	<b>17</b>	

	<b>Credit</b>	<b>Contact</b>
<b>Total year 3</b>	46	54

### *Summer semester*

PHCL1513	Introductory Pharmacy Practice Experience (IPPE) - 1	-	-	-	40	Pharmacology-3 (PHCH1500) Community Pharmacy-2 (PHCL1512)
----------	--	---	---	---	----	--



**Year 4**  
**Level 10**

	Course No.	Course Title	Units				Prereq.
			Lec.	Pr.	Tot.	Cont. Hrs	
1	PHCH1252	Biostatistics	2	-	2	2	Mathematics (PHCU1007)
2	PHCH1751	Pharmacology-4	3	-	3	3	Pharmacology-3 (PHCH1500)
3	PHCH1501	Medicinal Chemistry-3	3	-	3	3	Medicinal Chemistry-2 (PHCH1507)
4	PHCL1768	Pharmacotherapeutics-1	3	1	4	5	Pharmacology-3 (PHCH1500) Clinical Biochemistry (PHCH 1506)
5	PHCL1767	Pharmacy Practice	1	1	2	3	Pharmacy Orientation (PHCL1004)
6	PHCL1769	Patient Assessment	1	1	2	3	Pathophysiology-2 (PHCL1510)
<b>Total</b>					<b>16</b>	<b>19</b>	

**Level 11**

	Course No.	Course Title	Units				Prereq.
			Lec.	Pr.	Tot.	Cont.Hrs	
1	PHCG1752	Clinical Microbiology	3	1	4	5	Immunology (PHCG1505)
2	PHCL1770	Pharmacy Law and Ethics	2	-	2	2	Pharmacy Practice (PHCL1767)
3	PHCL1771	Pharmacotherapeutics-2	3	1	4	5	Pharmacotherapeutics-1 (PHCL1768) Patient Assessment (PHCL1769)
4	PHCL1772	Social and Behavioral Pharmacy	2	-	2	2	Pharmacy Practice (PHCL1767)
5	PHCL1754	Drug Information	1	1	2	3	Pharmacology-4 (PHCH1751)
6	PHCL1773	First Aid	1	1	2	3	Pharmacology-4 (PHCH1751)
<b>Total</b>					<b>16</b>	<b>20</b>	

**Level 12**

	Course No.	Course Title	Units				Prereq.
			Lec.	Pr.	Tot.	Cont.Hrs	
1	PHCL1774	Hospital Pharmacy	1	1	2	3	Pharmacy Practice (PHCL1767)
2	PHCL1775	Pharmacotherapeutics-3	3	1	4	5	Pharmacotherapeutics-2 (PHCL1771)
3	PHCL1776	Research Methodology	2	-	2	2	Drug Information (PHCL1754) and Biostatistics (PHCH1252)
4	PHCL1777	Patient and Medication Safety	2	-	2	2	Pharmacy Practice (PHCL1767)
5	PHCL1778	Public Health	2	-	2	2	Drug Information (PHCL1754)
6	PHCL1779	Pharm. D. Seminar	2	-	2	2	Drug Information (PHCL1754)
<b>Total</b>					<b>14</b>	<b>16</b>	

	<b>Credit</b>	<b>Contact</b>
<b>Total year 4</b>	46	55

**Summer semester**

PHCL1780	Introductory Pharmacy Practice Experience (IPPE) - 2	-	-	-	40	IPPE – 1 (PHCL1513) Pharmacotherapeutics-3 (PHCL1775)
----------	--	---	---	---	----	--





### Year 5 Level 13

	Course No.	Course Title	Units				Prereq.
			Lec.	Pr.	Tot.	Cont. Hrs	
1	PHCH1752	Toxicology and drug addiction	3	-	3	3	Pharmacology-4 (PHCH1751)
2	PHCG1753	Pharmaceutical Biotechnology	3	-	3	3	Clinical Microbiology (PHCG1752)
3	PHCH1754	Pharmacogenomics	2	-	2	2	Pharmacology-4 (PHCH1751)
4	PHCL1781	Pharmacotherapeutics-4	3	1	4	5	Pharmacotherapeutics-3 (PHCL1775)
5	PHCU1251	Biopharmaceutics and Pharmacokinetics	3	-	3	3	Pharmaceutics-3 (PHCU1750)
6	PHCU1752	Graduation Project - 1	-	1	1	2	Pharm. D. Seminar (PHCL1779) and Research Methodology (PHCL1776)
<b>Total</b>					<b>16</b>	<b>18</b>	

### Level 14

	Course No.	Course Title	Units				Prereq.
			Lec.	Pr.	Tot.	Cont.Hrs	
1	PHCL1758	Pharmacy Management	2	-	2	2	Pharmacy Practice (PHCL1767)
2	PHCL1759	Pharmacoepidemiology and Pharmacoeconomics	2	-	2	2	Research Methodology (PHCL1776)
3	PHCL1782	Pharmacotherapeutics-5	3	1	4	5	Pharmacotherapeutics-4 (PHCL1781)
4	PHCL1783	Clinical Pharmacokinetics	3	-	3	3	Biopharmaceutics and Pharmacokinetics (PHCU1251)
5	PHCU1753	Industrial Pharmacy-1	3	-	3	3	Biopharmaceutics and Pharmacokinetics (PHCU1251)
6	PHCU1754	Graduation Project - 2	-	1	1	2	Graduation Project – 1 (PHCU1752)
<b>Total</b>					<b>15</b>	<b>17</b>	

### Level 15

	Course No.	Course Title	Units				Prereq.
			Lec.	Pr.	Tot.	Cont.Hrs	
1	PHCL1784	Pharmacotherapeutics-6	3	1	4	5	Pharmacotherapeutics-5 (PHCL1782)
2	PHCU1755	Advanced drug delivery system	2	-	2	2	Biopharmaceutics and Pharmacokinetics (PHCU1251)
3	PHCL1785	Pharmaceutical Marketing	2	-	2	2	Pharmacoepidemiology and Pharmacoeconomics (PHCL1759)
4	PHCU1756	Graduation Project - 3	-	2	2	4	Graduation Project – 2 (PHCU1754)
5		Elective-1	2	-	2	2	-
6		Elective-2	2	-	2	2	-
<b>Total</b>					<b>14</b>	<b>17</b>	

	<b>Credit</b>	<b>Contact</b>
<b>Total year 5</b>	45	52



**Elective: The student must choose two elective courses for a four-hour credit**

Course No.	Course Title	Units				Prereq.
		Lec.	Pr.	Tot.	Cont. Hrs	
PHCU1757	Industrial Pharmacy-2	2	-	2	2	Industrial Pharmacy-1 (PHCU1753)
PHCU1758	Drug stability	2	-	2	2	Biopharmaceutics and Pharmacokinetics (PHCU1251)
PHCL1786	Clinical Lab results interpretation	2	-	2	2	Pharmacotherapeutics-5 (PHCL1782)
PHCL1787	Medication Therapy Management	2	-	2	2	Pharmacotherapeutics-5 (PHCL1782)
PHCG1756	Natural cosmetics	2	-	2	2	Natural Products Chemistry (PHCG1501)
PHCG1755	Stem cell and gene therapy	2	-	2	2	Pharmaceutical Biotechnology (PHCG1753)
PHCH1755	Forensic toxicology	2	-	2	2	Toxicology and drug addiction (PHCH1752)
PHCH1756	Omics Application in Pharmaceutical Science	2	-	2	2	Pharmacogenomics (PHCH1754)





### Summer Year 5

Course No.	Course Title	Units				Prereq.
		Lec.	Pr.	Tot.	Cont. Hrs	
PHCL1762	Clerkship-1	-	5	5	40	All the previous courses and internships
				5	40	

1 Unit clerkship-1 = 8 contact training hours.

### Year 6 Level 16

Course No.	Course Title	Units				Prereq.
		Lec.	Pr.	Tot.	Cont. Hrs	
PHCL1763	Clerkship-2	-	10	10	40	PHCL1762
				10	40	

1 Unit clerkship-2 = 4 contact training hours.

### Level 17

Course No.	Course Title	Units				Prereq.
		Lec.	Pr.	Tot.	Cont. Hrs	
PHCL1764	Clerkship-3	-	10	10	40	PHCL1763
				10	40	

1 Unit clerkship-3= 4 contact training hours.

### Level 18

Course No.	Course Title	Units				Prereq.
		Lec.	Pr.	Tot.	Cont. Hrs	
PHCL1765	Clerkship-4	-	10	10	40	PHCL1764
				10	40	

1 Unit clerkship-4 = 4 contact training hours.

<b>Total year 6 (Clerkship year)</b>	<b>Credit</b>
	35

<b>Total Pharm. D Academic Curriculum</b>	<b>Credit</b>
	213 + 35

