



**Bachelor of Pharmacy (PHAR)**

**First Year**

**Fall Semester**

Code	Title	Credits	Prerequisites	Corequisites
CHEM200L	General Chemistry Lab	1	ENGL101 - CHEM160	CHEM200
BIOL200	General Biology I	3	ENGL051 - ENGL101 - BIOL160	BIOL200L
BIOL200L	General Biology I Lab	1	ENGL051 - ENGL101	BIOL200
CHEM200	General Chemistry	3	ENGL101 - CHEM160	CHEM200L
PHAR200	Introduction to Drug Information	2	ENGL051 - ENGL101	
ENGL201	Composition and Research Skills	3	ENGL151	
CULT200	Introduction to Arab - Islamic Civilization	3		
Total		16		

**Spring Semester**

Code	Title	Credits	Prerequisites	Corequisites
CHEM250	Organic Chemistry I	3	ENGL051 - ENGL101 - CHEM200	
ENGL251	Communication Skills	3	ENGL201	
PHAR250	Pharmacy Practice ,History & Ethics	3	ENGL051 - ENGL101	
CSCI200	Introduction to Computers	3	ENGL051	
BIOL360	Human Physiology & Anatomy	4	BIOL200	BIOL360L
BIOL360L	Human Physiology & Anatomy Lab	1		BIOL360
Total		17		

**Second Year**

**Fall Semester**

Code	Title	Credits	Prerequisites	Corequisites
	Elective	3		
BIOC310	Medical Biochemistry	4	CHEM250 - BIOL200	
CHEM300	Organic Chemistry II	3	ENGL051 - ENGL101 - CHEM250	
CHEM300L	Organic Chemistry Lab	2	ENGL051 - ENGL101 - CHEM250	
MATH245	Statistics for Health Sciences	3	ENGL051 - ENGL101 - ENGL151	
PHAR300	Pharmaceutical Calculations	2	ENGL051 - ENGL101 - CHEM200	PHAR250 - PHAR200
Total		17		

**Spring Semester**

Code	Title	Credits	Prerequisites	Corequisites
BMED445	Pathophysiology	3	BIOL360	
	Elective	3		
BIOL385	Microbiology	3	ENGL051 - ENGL101 - BIOL200	BIOL385L
BIOL385L	Microbiology Lab	1	ENGL051 - ENGL101	BIOL385
ARAB200	Arabic Language and Literature	3		
PHAR205	Quantitative Analysis	2	ENGL051 - CHEM200	CHEM250
Total		15		

### Third Year

#### Fall Semester

Code	Title	Credits	Prerequisites	Corequisites
PHAR425	Pharmacognosy & Herbal Medicine	3		
PHAR435	Dermatology and Cosmetology	3		
PHAR407L	Pharmaceutical/Biotechnology Lab	1	ENGL251 - PHAR205 - CHEM300L - CHEM300	PHAR407
PHAR400	Medicinal Chemistry I	3	CHEM300L - CHEM300 - CHEM200	
PHAR407	Pharmaceutical Analysis & Biotechnology	2	PHAR205 - CHEM300L - CHEM300 - CHEM250	PHAR407L
PHAR410	Drug Dosage Forms I	3		
PHAR420	Physical Pharmacy	3		
Total		18		

#### Spring Semester

Code	Title	Credits	Prerequisites	Corequisites
PHAR472	Drug Dosage Form II	3	PHAR410	PHAR472L
PHAR472L	Compounding Lab	1		PHAR410
PHAR450	Medicinal Chemistry II	3	PHAR400	
PHAR415	Professional Communications	1		
PHAR455	Physical Assessment in Pharmacy Practice	3		
PHAR460	Pharmacy Management & Drug Marketing	3		
PHAR465	Interpretations of Lab Data	3		
Total		17		

#### Summer Semester

Code	Title	Credits	Prerequisites	Corequisites
PHAR480	Pharmacy Practice Experience I (PPEI)	6	PHAR415 - PHAR455 - PHAR465 - PHAR472L - PHAR472 - PHAR407 - PHAR420 - PHAR407L - PHAR425 - PHAR435 - PHAR410 - BMED445 - PHAR460 - PHAR450 - PHAR400	
Total		6		

### Fourth Year

#### Fall Semester

Code	Title	Credits	Prerequisites	Corequisites
PHAR510	Biopharmaceutics& Pharmacokinetics	4	PHAR480	PHAR472L - PHAR472 - PHAR420
PHAR505	Pharmacology I	4	PHAR480	PHAR435 - PHAR425 - PHAR420 - PHAR415 - PHAR410 - PHAR407L - PHAR407 - PHAR400
	Elective	3		
PHAR520	Pharmacotherapeutics II (Pulmonary/Rheumatology)	3	PHAR480	PHAR505
PHAR515	PharmacotherapeuticsI (Neurology/Psychiatry)	3	PHAR480	PHAR505
Total		17		

#### Spring Semester

Code	Title	Credits	Prerequisites	Corequisites
PHAR560	Pharmacogenomics	3	PHAR505	PHAR555
	Elective	3		

PHAR555	Pharmacology II	4	PHAR505	PHAR472L - PHAR472 - PHAR465 - PHAR460 - PHAR455 - PHAR435 - PHAR415 - PHAR450
PHAR565	Pharmacotherapeutics III (Cardiology/Nephrology)	3	PHAR480	PHAR555
PHAR570	Pharmacotherapeutics IV (Endocrinology/Dermatology)	3	PHAR480	PHAR555
PHAR585	Pharmacy Seminar	2	PHAR515	
Total		18		

### Summer Semester

Code	Title	Credits	Prerequisites	Corequisites
PHAR580	Pharmacy Practice Experience II (PPE II)	6	PHAR585 - PHAR560 - PHAR510 - PHAR570 - PHAR565 - PHAR555 - PHAR520 - PHAR515 - PHAR505 - PHAR480	
Total		6		

## Fifth Year

### Fall Semester

Code	Title	Credits	Prerequisites	Corequisites
PHAR610	Toxicology	3	PHAR555	
PHAR625	Pharmacoeconomics	3	PHAR555	
PHAR620	Pharmacotherapeutics VI (Hematology/Oncology)	3	PHAR580	
PHAR615	Pharmacotherapeutics V (infectious Diseases)	3	PHAR580	
PHAR635	Parenteral Dosage Forms	2	PHAR580	
PHAR606	Non-Prescription Drugs	3	PHAR580	
Total		17		

### Spring Semester

Code	Title	Credits	Prerequisites	Corequisites
PHAR660	Pharmacy Practice Experience III (PPE III)	6	PHAR635 - PHAR625 - PHAR606 - PHAR580 - PHAR480 - PHAR620 - PHAR615 - PHAR610	PHAR656 - PHAR650
PHAR656	Pharmacy Law	1	PHAR635 - PHAR625 - PHAR606 - PHAR580 - PHAR480 - PHAR620 - PHAR615 - PHAR610	PHAR650 - PHAR665 - PHAR660
PHAR650	Pharmacy Dispensing Practice	2	PHAR635 - PHAR625 - PHAR606 - PHAR580 - PHAR480 - PHAR620 - PHAR615 - PHAR610	PHAR665 - PHAR660 - PHAR656
PHAR665	Pharmacy Practice Experience IV(PPE IV)	6	PHAR635 - PHAR625 - PHAR606 - PHAR580 - PHAR480 - PHAR620 - PHAR615 - PHAR610	PHAR656 - PHAR650
Total		15		

## Major Elective Courses

Code	Title	Credits	Prerequisites	Corequisites
PHAR530	Clinical Nutrition	3		
PHAR531	Introduction to Epidemiology and Biostatistics	3		

PHAR532	Special Topics: Geriatrics and Palliative Care	3		
PHAR533	Special Topics: Ambulatory Care & First Aid	3		
PHAR534	Special Topics: Immunization & Vaccination	3		
PHAR540	Pharmacy Careers	3		
PHAR541	Hospital Pharmacy	3		
PHAR590	Industrial Pharmacy	3		
PHAR591	Instrumental Analysis	3		
PHAR592	Special Techniques in Antimicrobial Resistance	3		