



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 | ENGL101 - BIOL160 | BIOL200L |
| BIOL200L | General Biology I Lab | 1 | 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 | | |
| PHAR456 | Introduction to Pharmacy Practice and Simulation | 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 - 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 | | |

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|---------|---|----|---------|--|
| PHAR555 | Pharmacology II | 4 | PHAR505 | PHAR472L - PHAR472 - PHAR465 - PHAR460 - 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 | | |

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|---------|--|---|--|--|
| 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 | | |