



BACHELOR OF SCIENCE IN INDUSTRIAL PHARMACY – 2005 CURRICULUM

| | Units | Pre-requisite/s | Co-requisite/s |
|--|-------------|-----------------------|----------------|
| FIRST YEAR | | | |
| 1 st Semester | | | |
| _____ GE (AH) | 3.0 | | |
| _____ GE (MST) | 3.0 | | |
| _____ GE (SSP) | 3.0 | | |
| _____ Bio 20: General Botany for Pharm Students | 5.0 | | |
| _____ Math 17: Algebra & Trigonometry | 5.0 | | |
| _____ Phar 100: Perspectives in Pharmacy | 1.0 | | |
| _____ Physical Education | (2.0) | | |
| _____ NSTP 1 | (3.0) | | |
| | <u>20.0</u> | | |
| 2 nd Semester | | | |
| _____ GE (AH) | 3.0 | | |
| _____ GE (SSP) | 3.0 | | |
| _____ GE (SSP) | 3.0 | | |
| _____ Chem 14: Fundamentals of Gen Chem I | 3.0 | Math 17 | |
| _____ Chem 14.1: Fundamentals of Gen Chem I Lab | 1.0 | Math 17 | Chem 14 |
| _____ Math 100: Introduction to Calculus | 4.0 | Math 17 | |
| _____ IP 121: Pharm Calculations & Techniques | 3.0 | Math 17 or equivalent | Chem 14 & 14.1 |
| _____ Physical Education | (2.0) | | |
| _____ NSTP 2 | (3.0) | | |
| | <u>20.0</u> | | |
| SECOND YEAR | | | |
| 1 st Semester | | | |
| _____ GE (AH) | 3.0 | | |
| _____ GE (AH) | 3.0 | | |
| _____ GE (SSP) | 3.0 | | |
| _____ Physics 51: General Physics I | 3.0 | Math 17 | |
| _____ Chem 18: Fundamentals of Gen Chem II | 3.0 | Chem 14 | |
| _____ Chem 18.1: Fundamentals of Gen Chem II Lab | 2.0 | Chem 14.1 | Chem 18 |
| _____ Ph Ch 125: Pharmaceutical Organic Chem I | 2.0 | Chem 14, IP 121 | |
| _____ Ph Ch 125.1: Pharm Organic Chem I Lab | 1.0 | Chem 14/14.1, IP 121 | PhCh 125 |
| _____ Physical Education | (2.0) | | |
| | <u>20.0</u> | | |
| 2 nd Semester | | | |
| _____ GE (AH) | 3.0 | | |
| _____ IP 141: Pharmaceutical Dosage Forms | 4.0 | IP 121 | |
| _____ Bio 22: General Zoology | 5.0 | Chem 14 | |
| _____ Physics 52: General Physics II | 3.0 | Physics 51 | |
| _____ Ph Ch 121: Inorganic Pharmaceutical Chem | 3.0 | Chem 18/18.1, IP 121 | |
| _____ Ph Ch 126: Pharmaceutical Organic Chem II | 2.0 | PhCh 125 | |
| _____ Ph Ch 126.1: Pharm Organic Chem II Lab | 1.0 | PhCh 125.1 | PhCh 126 |
| _____ Physical Education | (2.0) | | |
| | <u>21.0</u> | | |



THIRD YEAR

1st Semester

| | | | | |
|-------|--|-------------|-------------------------------|----------|
| _____ | GE (SSP) | 3.0 | | |
| _____ | Chem 150: Introduction to Physical Chem | 3.0 | Math 100, Physics 52 | |
| _____ | IP 195: Pharmaceutical Statistics 1 | 3.0 | Math 17 | |
| _____ | Phar 105: Introduction to Pharmacy Informatics | 2.0 | 3 rd year standing | |
| _____ | Phar 111: Human Ana, Physio, & Pathophys 1 | 3.0 | Bio 22 | PhCh 127 |
| _____ | Ph Ch 127: Pharmaceutical Biochemistry | 2.0 | PhCh 126 | |
| _____ | Ph Ch 127.1: Pharmaceutical Biochem Lab | 1.0 | PhCh 126.1 | PhCh 127 |
| _____ | Ph Ch 135: Pharmaceutical Analysis 1 | 3.0 | PhCh 121, PhCh 125/.1 | |
| | | <u>20.0</u> | | |

2nd Semester

| | | | | |
|-------|--|-------------|----------------------|--|
| _____ | PI 100: The Life & Works of Jose Rizal | 3.0 | | |
| _____ | IP 142: Physical Pharmacy | 3.0 | Chem 150, IP 141 | |
| _____ | IP 196: Pharmaceutical Statistics 2 | 3.0 | IP 195 | |
| _____ | Phar 112: Human Ana, Physio, & Pathophys 2 | 3.0 | Phar 111, PhCh 127 | |
| _____ | Ph Ch 128: Medicinal Chemistry 1 | 5.0 | Bio 20, PhCh 127/.1 | |
| _____ | Ph Ch 136: Pharmaceutical Analysis 2 | 3.0 | Physics 52, PhCh 135 | |
| | | <u>20.0</u> | | |

Mid-Year Term

| | | | | |
|-------|---|-----|--|--|
| _____ | Phar 180.1: Community Pharmacy Internship | 5.0 | | |
|-------|---|-----|--|--|

FOURTH YEAR

1st Semester

| | | | | |
|-------|--|-------------|-------------------------------|----------|
| _____ | IP 125: Pharmaceutical Manufacturing | 3.0 | IP 141 | IP 131 |
| _____ | IP 131: Quality Assurance of Pharmaceuticals | 3.0 | PhCh 136 | IP 125 |
| _____ | IP 135: Pharmaceutical Engineering | 3.0 | IP 142 | IP 125 |
| _____ | Phar 125: Pharmaceutical Accounting | 2.0 | 4 th year standing | |
| _____ | Phar 135: Pharmaceutical Microbiology | 4.0 | Phar 112, PhCh 127 | |
| _____ | Phar 140: Pharmacology for Pharm Students 1 | 3.0 | Phar 112, PhCh 127 | Phar 135 |
| _____ | Ph Ch 137: Pharmaceutical Analysis 3 | 3.0 | PhCh 128, PhCh 136 | |
| | | <u>21.0</u> | | |

2nd Semester

| | | | | |
|-------|---|-------------|--------------------|--------------------|
| _____ | GE (MST) | 3.0 | | |
| _____ | IP 155: Biopharmaceutics | 3.0 | IP 125, IP 142 | |
| _____ | Phar 127: Pharmaceutical Management | 2.0 | Phar 125 | |
| _____ | Phar 141: Pharmacology for Pharm Students 2 | 3.0 | Phar 135, Phar 140 | |
| _____ | Phar 154: Dispensing & Incompatibilities | 3.0 | IP 141, Phar 140 | Phar 141 |
| _____ | Phar 155: Hospital Pharmacy | 4.0 | Phar 140 | Phar 127, Phar 154 |
| _____ | Ph Ch 129: Medicinal Chemistry 2 | 3.0 | Phar 140, PhCh 128 | Phar 141 |
| | | <u>21.0</u> | | |

Mid-Year Term

| | | | | |
|-------|--|-------------|----------|--|
| _____ | Phar 180.2: Hospital Pharmacy Internship | 5.0 | Phar 155 | |
| _____ | Phar 180.3: Industrial Pharmacy Internship | 5.0 | IP 125 | |
| | | <u>10.0</u> | | |



FIFTH YEAR

1ST Semester

| | | | | |
|-------|--|-------------|--------------------------------------|----------------|
| _____ | GE (MST) | 3.0 | | |
| _____ | IP 161: Pharmacokinetics | 3.0 | IP 155, Phar 141 | |
| _____ | IP 165: Prod Planning & Inventory Control | 3.0 | IP 125 | |
| _____ | IP 170: Pharmaceutical Product Development | 3.0 | IP 125, IP 131 | IP 161, IP 175 |
| _____ | IP 175: Pharmaceutical Marketing | 2.0 | IP 125 | |
| _____ | Phar 163: Legal Pharmacy 1 | 1.0 | 5 th year standing | |
| _____ | Phar 199: Research Methods | 3.0 | IP 196, Phar 105, 5 th yr | |
| _____ | Ph Ch 180: Introduction to Drug Discovery | 2.0 | PhCh 128 | |
| | | <u>20.0</u> | | |

2nd Semester

| | | | | |
|-------|--|-------------|-------------------------------|--------------------|
| _____ | IP 185: Validation of Pharmaceutical Processes | 3.0 | IP 135, IP 170 | |
| _____ | IP 190: Cosmetic Product Development | 3.0 | IP 125, IP 141 | |
| _____ | Phar 164: Legal Pharmacy 2 | 1.0 | Phar 163 | |
| _____ | Phar 174: Pharmacoeconomics | 2.0 | Phar 154, Phar 199 | |
| _____ | Phar 185: Public Health Pharmacy | 3.0 | 5 th year standing | |
| _____ | Phar 190: Pharmaceutical Biotechnology | 3.0 | Phar 135 | |
| _____ | Phar 197: Pharmacy Seminar | 1.0 | Phar 199, 5 th yr | |
| _____ | Phar 200: Pharmacy Undergraduate Thesis | 3.0 | Phar 199, 5 th yr | Phar 197 |
| _____ | Ph Ch 145: General Toxicology | 3.0 | Phar 140, PhCh 128 | Phar 141, PhCh 129 |
| | | <u>22.0</u> | | |

TOTAL UNITS **220.0**