



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		
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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	5 th year standing	
_____	Phar 200: Pharmacy Undergraduate Thesis	3.0	Phar 199, 5 th yr	Phar 197
_____	Ph Ch 145: General Toxicology	3.0	Phar 141, PhCh 129	
		<u>22.0</u>		

TOTAL UNITS **220.0**