

Advisory Plan (Pharm.D.)

First Year - First Semester		
Course Name	Course Number	Credit Hours
General chemistry for health sciences	10231114	3
General chemistry Lab for health sciences	10231115	1
General biology for health sciences	7104101	3
Biostatistics for medical and health sciences	10216235	3
University Requirement		3
University Requirement		3
	Total	16

First Year - Second Semester		
Course Name	Course Number	Credit Hours
Analytical chemistry for health sciences	3	10231213
Practical analytical chemistry for health sciences	1	10231214
Anatomy for Pharmacy	3	7101204
Principles of Biochemistry and Metabolic Biochemistry	3	7104210
Medical nutrition	2	7106301
Principles of Biochemistry and Metabolic Biochemistry Lab	1	7104211
Pharmacy ethics and professionalism	1	7227206
University Requirement	3	
	Total	17

Second Year - First Semester		
Course Name	Course Number	Credit Hours
General microbiology	3	7105403

General microbiology (lab)	1	7105404
Medical Physiology I	4	7102201
Organic chemistry I for health sciences	3	10231236
Organic chemistry I for health sciences (lab)	1	10231239
Physical pharmacy I	3	7304201
First aid	1	7227102
	Total	16

Second Year - Second Semester		
Course Name	Course Number	Credit Hours
Organic chemistry II for health sciences	10231330	3
Pharmacology I	7301301	4
Clinical psychology	7227301	3
Pathology	7103201	3
Advanced Medical physiology	7103907	2
Pharmaceutical Immunology	7103906	2
	Total	17

Third Year - First Semester		
Course Name	Course Number	Credit Hours
Medicinal Chemistry I	7303301	4
Pharmacology II	7301302	4
Phytotherapy	7303406	2
Instrumental Analytical Chemistry	10231313	3
Practical Instrumental Analysis	10231314	1
Communication skills	7302301	1
Pharmaceutical calculations	7304504	2
	Total	17

Third Year - Second Semester		
Course Name	Course Number	Credit Hours
Pharmacotherapy I	7301401	3
Medicinal Chemistry II	7303302	4
Nutraceutical	7303401	3
Pharmaceutics I	7304301	4
Drug information	7301504	2
Patient education and counseling	7302302	1
	Total	17

Fourth Year - First Semester		
Course Name	Course Number	Credit Hours
Hospital pharmacy	7302506	3
Pharmacotherapy II	7301402	3
Pharmaceutics II	7304302	4
Pharmaceutical care I	7301403	3
Over the counter medications	7302507	2
Research methods in biomedical sciences	7000408	3
	Total	18

Fourth Year - Second Semester		
Course Name	Course Number	Credit Hours
Industrial pharmacy	7304401	3
Pharmacotherapy III	7301501	3
Pharmacokinetics	7304501	3
Pharmaceutical care II	7301404	2
Clinical use of antibiotics	7301407	3
Pharmaceutics lab.	7304303	1
Elective course		3

	Total	18
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Fourth Year - Summer Semester		
Course Name	Course Number	Credit Hours
Pharm.D. research project	7304606	3
Community pharmacy clerkship	7302505	3
	Total	6

Fifth Year – First Semester		
Course Name	Course Number	Credit Hours
Pharmacy law and legalization	7302501	1
Pharmacotherapy IV	7301502	3
Clinical pharmacokinetics	7304503	2
Clinical chemistry case study	7103406	2
Pharmaceutical marketing and drug promotion	7302502	1
Elective course		3
	Total	12

Fifth Year – Second Semester		
Course Name	Course Number	Credit Hours
Pharmacotherapy V	2	7301518
Clinical toxicology cases	3	7301408
Clinical pharmacotherapy and biochemistry cases	2	7301519
Biotechnology product	3	7304505
Clinical pharmaceutical compounding	2	7304605
Elective course	3	

	Total	15
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Sixth Year – First Semester		
Course Name	Course Number	Credit Hours
Clerkship I	7302508	8
Clerkship II	7302509	8
	Total	16

Sixth Year – Second Semester		
Course Name	Course Number	Credit Hours
Clerkship III	7302601	8
Clerkship IV	7302602	8
	Total	16