

Effective from 2022-2023		Pharmacy-Study Plan		Total Credits = 166.00	
Year 1 - Semester 1					
Course	Code	Course Title	Credits	Prerequisite	Corequisite
GRD	100	First Year Seminar	0.00		
GRD	101	Biology	3.00		GRD 102
GRD	102	Biology Lab	1.00		GRD 101
GRD	141	Chemistry	3.00		GRD 142
GRD	142	Chemistry Lab	1.00		GRD 141
GRD	151	Calculus for Health Sciences	3.00		
GRD	161	Academic Writng 1	2.00		
Year 1 - Semester 2					
Course	Code	Course Title	Credits	Prerequisite	Corequisite
GRD	111	Anatomy and Physiology A	3.00		GRD 112
GRD	112	Anatomy and Physiology Lab A	1.00		GRD 111
GRD	271	Islamic Studies	3.00		
GRD	251	Introduction to Biostatistics	3.00		
PHA	130	Introduction to Pharmacy	2.00		
PHA	131	Pharmacy Health & Society	2.00		
Year 1 - Semester 3					
Course	Code	Course Title	Credits	Prerequisite	Corequisite
GRD	121	Anatomy and Physiology B	3.00	GRD 111, GRD 112	GRD 122
GRD	122	Anatomy and Physiology Lab B	1.00	GRD 111, GRD 112	GRD 121
GRD	261	Academic Writng 2	2.00	GRD 161	
Year 2 - Semester 1					
Course	Code	Course Title	Credits	Prerequisite	Corequisite
PHA	112	Bio-Organic & Med Chem	3.00	GRD 141, GRD 142	PHA 113
PHA	113	Biochem Cellular Molec Bio	4.00	GRD 141, GRD 142	PHA 112
GRD	171	Introduction to Psychology	3.00		
PHA	232	Non-RX meds for self-care	3.00	PHA 131	
PHA	214	Physicochem Basis Pharm	3.00	GRD 141	
Year 2 - Semester 2					
Course	Code	Course Title	Credits	Prerequisite	Corequisite
PHA	213	Basis of Drug Action	3.00	PHA 112	
PHA	221	Principles of Pharmacology	3.00	PHA 112, PHA 113, PHA 130	
PHA	233	Pharmacy Law and Ethics	2.00	PHA 131	
PHA	215	Microbiology & Immunology	3.00	GRD 101	PHA 221
PHA	222	Drug Delivery & Physical Pharm	3.00	PHA 214	
Year 2 - Semester 3					
Course	Code	Course Title	Credits	Prerequisite	Corequisite
PHA	151	Community PEP A	3.00	PHA 131	PHA 252
PHA	252	Community PEP B	3.00	PHA 232, PHA 233	PHA 151
Year 3 - Semester 1					
Course	Code	Course Title	Credits	Prerequisite	Corequisite
PHA	323	Drug Delivery and Dispositon	3.00	PHA 222, PHA 214	
PHA	334	Context for Practice I	3.00	PHA 131, PHA 232	
PHA	341	Int Pain, Infam and Rheumatol	3.00	PHA 113	
CER- COLLEGE ELECTIVE REQUIREMENT			3.00		
PHARMACY ELECTIVE I			2.00		

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Year 3 - Semester 2					
Course	Code	Course Title	Credits	Prerequisite	Corequisite
PHA	324	Drug Deliv Disp & Dynamics	3.00	PHA 323	
PHA	335	Pharm Public Health Context	3.00	PHA 334	
PHA	342	Int Endocrinology & Nephrology	4.00	PHA 341	PHA 343
PHA	343	Int Cardiology & Pulmonology	4.00	PHA 341	PHA 342

Year 3 - Semester 3					
Course	Code	Course Title	Credits	Prerequisite	Corequisite
PHA	353	Hospital 1 PEP A	3.00	PHA 342, PHA 343	
PHA	354	Hospital 1 PEP B	3.00	PHA 342, PHA 343	

Year 4 - Semester 1					
Course	Code	Course Title	Credits	Prerequisite	Corequisite
PHA	425	Pharm Stab & Sterile Forms	3.00	PHA 324	
PHA	436	Context for Practice II	3.00	PHA 334, PHA 335	
PHA	444	Int GI Disease & PN	3.00	PHA 342, PHA 343	
PHA	445	Int Dermatol & Infect Disease	4.00	PHA 342, PHA 343	

Year 4 - Semester 2					
Course	Code	Course Title	Credits	Prerequisite	Corequisite
PHA	426	Advanced Drug Del & Dev	3.00	PHA 324, PHA 425	
PHA	446	Integrative Toxicology	2.00	PHA 323	
PHA	447	Int Neurology and Psychiatry	4.00	PHA 444, PHA 445	
PHA	461	Pharm Research Critical Review	2.00	PHA 425, PHA 436, PHA 445	
PHARMACY ELECTIVE 2			2.00		

Year 4 - Semester 3					
Course	Code	Course Title	Credits	Prerequisite	Corequisite
PHA	455	AHS PEP A	3.00	PHA 436, PHA252	
PHA	456	AHS PEP B	3.00	PHA 436, PHA252	

Year 5 - Semester 1					
Course	Code	Course Title	Credits	Prerequisite	Corequisite
GRD	301	Innovation & Entrepreneurship	3.00	GRD 261	
GRD	361	Research Methodology	3.00	GRD 251, GRD 261	
PHA	537	Context for Practice III	3.00	PHA 436	
PHA	557	Industry PEP	1.00	PHA 425, PHA 426	
PHA	562	Pharm Research Data Analysis	2.00	PHA 461	GRD 361

Year 5 - Semester 2					
Course	Code	Course Title	Credits	Prerequisite	Corequisite
PHA	538	Transition to Practice	2.00	PHA 131, PHA 537	
PHA	548	Int Haematology & Oncology	4.00	PHA 215	
PHA	549	Advanced Therapeutics	3.00	PHA 342, PHA 343, PHA 447	
PHA	563	Pharmacy Research Project	4.00	GRD 361, PHA 461, PHA 562	

Year 5 - Semester 3					
Course	Code	Course Title	Credits	Prerequisite	Corequisite
PHA	558	Hospital 2 PEP A	3.00	PHA 548, PHA 549	
PHA	559	Hospital 2 PEP B	3.00	PHA 548, PHA 549	

Pharmacy Electives					
Course	Code	Course Title	Credits	Prerequisite	Corequisite
PHA	022	Cosmeceutical and Cosmetic Formulations for Pharmacists	2.00		
PHA	023	Applied Pharmaceutical Microbiology and Biotechnology for Pharmacists	2.00	PHA215	
PHA	032	Applied Communication Skills for Pharmacists	2.00		
PHA	033	Applied Ethical Principles in Pharmacy Practice	2.00		
PHA	041	Clinical Trial Management for Pharmacists	2.00		