

AUIS - Pharmacy BSc. Program
Academic Year 2024 - 2025
Prerequisite Semester Subjects' Flow Chart

Course Code and Description	Credits	Prerequisite(s)	
1st Semester			
R 100 - Reading 100 (Concurrent Required)	3	None	
W 100 - Writing 100 (Concurrent Required)	3	None	
CSC 101 - Computer Science and IT Applications (Core)	3	None	
MTH 133 - Mathematics, Precalculus (Core)	3	None	
HPS 101 - Healthcare Systems and Soft Pharmacy Skills Development	2	None	
TER 101 - Medical Terminology	3	None	
Total Credits	17		
2nd Semester			
ENG 101 - English 101	3	W 100 , R 100	
BSTT 101 - Biostatistics	2	MTH 133	
CHP 102P - Chemistry for Pharmacy + Lab	3	None	
PHC 102 - Pharmaceutical Calculations I	2	MTH 133	
BIO 102P - Human Biology and Histology + Lab	4	None	
PHY 102P - Human Anatomy and Physiology I + Lab	3	12 Earned Credits	
Total Credits	17		
3rd Semester			
CIV 101 - The Ancient World History (Core)	3	W 100 , R 100	
ENG 102 - Critical Reading and Writing (Core)	3	ENG 101	
ORG 203P - Organic Chemistry I + Lab	4	CHP 102P	
PHY 203 - Human Anatomy and Physiology II	3	PHY 102P	
MCR 203P - Pharmaceutical Microbiology I (Bacteriology) + Lab	3	BIO 102P	
PHC 203P - Pharmaceutical Calculations II + Lab	3	PHC 102P	
Total Credits	19		
4th Semester			
ENG 203 - Research & Project - Writing	3	ENG 102	
COM 204 - Pharmacy Communication Skills	2	HPS 101	
ORG 204P - Organic Chemistry II + Lab	4	ORG 203P	
BCH 204P - Biochemistry + Lab	3	ORG 203P	
MCR 204 - Pharmaceutical Microbiology II (Parasitology and Virology)	2	MCR 203P	
PPE 204P - Pharmacy Practice Experience I (PPE I)	2	45 Earned Credits	
OTC 204P - Self-care and OTC Therapy + Lab	3	45 Earned Credits	
Total Credits	19		
5th Semester			
DRG 305 - Drug Informatics	2	OTC 204P, PPE 204P	
DOS 305P - Dosage Forms I + Lab	4	PHC 203P	
BCH 305 - Clinical Biochemistry	3	BCH 204P	
PHA 305P - Pharmaceutical Analysis + Lab	3	ORG 204P	
COL 305 - Foundation of Pharmacology	2	PHY 203	
IMM 305 - Immunology and Vaccination	2	MCR 204	
PPE 305P - Pharmacy Practice Experience II (PPE II)	2	PPE 204P	
Total Credits	18		
6th Semester			
DRG 306 - Drug Development and Innovation	2	ORG 204P, COL 305	
IPTIA 306 - Integrated Pathophysiology, Pharmacology, and Therapeutics IA	4	COL 305	
IPTIB 306 - Integrated Pathophysiology, Pharmacology, and Therapeutics IB	4	COL 305	
PHS 306P - Pharmacy Skills I	1	COL 305, PPE 305P	
PPE 306P - Pharmacy Practice Experience III (PPE III)	1	PPE 204P	
DOS 306P - Dosage Forms II + Lab	3	DOS 305P	
PCH 306 Chemical Basis of Drug Action I	3	ORG 204P	
Total Credits	18		
7th Semester			
IPTIIA 407 - Integrated Pathophysiology, Pharmacology, and Therapeutics IIA	4	IPTIA 306, IPTIB 306, PHS 306P	
IPTIIB 407 - Integrated, Pathophysiology, Pharmacology, and Therapeutics IIB	4	IPTIA 306, IPTIB 306, PHS 306P	
PHS 407P - Pharmacy Skills II	1	PHS 306P	
PCH 407 - Chemical Basis of Drug Action II	2	PCH 306	

PPE 407P - Pharmacy Practice Experience IV (PPE IV)	1	PPE 305P	
DOS 407P - Dosage Forms III + Lab	3	DOS 306P	
COG 407 - Pharmacognosy and Plant Poisons	3	ORG 204P, BCH 305, COL 305	
Total Credits		18	

Summer Semester			
IPP407-AP - Introductory Pharmacy Placement I (IPP I)	1	OTC 204P, DRG 305, PPE 306P	
Total Credits		1	

8th Semester			
CAM 408 - Complementary and Alternative Medicine	2	COG 407	
IPTIII 408 - Integrated Pathophysiology, Pharmacology, and Therapeutics III	4	IPTIIA 407, IPTIIB 407, PHS 407P	
PHS 408P - Pharmacy Skills III	1	PHS 407P	
BPH 408 - Pharmacokinetics and Biopharmaceutics	4	DOS 407P	
DRD 408 - Advanced Drug Delivery Systems	3	PCH 407, DOS 407P	
CIV 203 - Civilization III: The Ancient World (Humanities)	3	30 Earned Credits	
Total Credits		17	

9th Semester			
IPTIV 509 - Integrated Pathophysiology, Pharmacology and Therapeutics IV	4	IPTIII 408, PHS 408P	
PHS 509P - Pharmacy Skills IV	1	PHS 408P	
GRP 509P - Graduation Project + Lab	3	Senior Standing	
MAN 509 - Pharmacy Management, Ethics, and Law	3	PPE 305P, PPE 407P, IPP407-AP	
IND 509P - Industrial Pharmacy + Lab	4	DOS 407P, DRD 408	
DLE 509 - Clinical Drug Literature Evaluation (Research Methodology)	1	DRG 305, COL 305, IPTIII 408, PHS 408P	
IPE 509P - Interprofessional Education	1	PPE 306P, PPE 407P, IPP 407-AP, IPTIV 509	
Total Credits		17	

Summer Semester			
IPP509-AP Introductory Pharmacy Placement II (IPP II)	1	IPP 407-AP	
Total Credits		1	

10th Semester			
GNX 510 - Integrated Pharmaceutical Biotechnology, Pharmacogenomics, and Personalize	3	BIO 102P, COG 407, IPTIV 509	
SIM 510P - Simulation Pharmacy (Practical)	1	PPE 306P, IPP 509-AP, IPTIV 509, PHS 509P	
TOX 510 - Toxicology and Drug Poisoning	3	COL 305, IPTIV 509, PHS 509P	
AIP 510P - AI in Pharmaceutical Sciences + Lab	3	CSC 101, PCH 407, PHA 305P, BPH 408, PHS 509P, DRG 305	
CPK 510P - Clinical Pharmacokinetics Skills	1	BPH 408, PHS 509P	
STE 510 - Sterile Formulations	2	IND 509P	
COS 510 - Cosmetics and Parapharmaceuticals	2	OTC 204P, IND 509P	
Total Credits		15	

Program Credits		
Core	29 Credits	
Major	148	
Minor / Concentration/ Electives	-	
Minor / Concentration/ Electives	-	
Total	177 Credits	

General Tips and Recommendations	
The average daily student involvement in the program is 3.2 hours/week	
* The credit hours for the CP subjects equals to 2.3 hours per week.	
** The credits hours of this curriculum are based on the US Credit System (USCS), ! USCS = 2 ECTS	
*** Each theoretical credit is equal to one our and one practical credit is three hours except for the Pharmacy Practice Experiences (4 hours)	

Varied Degree Paths	
Student degree paths may vary slightly from this form. If academic record differs from the courses listed in this form, please contact the Registration and Records Office during the advising week for clarification. Independent study, transfer credits or other unique circumstances are typically accounted for in the elective category.	