

## PharmD Professional Division

### KEY - IPPE: Introductory Pharmacy Practice Experience

TERM	SUBJECT	NUMBER		COURSE TITLE		COURSE REQUIREMENTS
<b>1st Term Fall</b>						
	MBC	3310/ 5310		Med Chem I: Drug Action and Design	2	CHEM 2420
	MBC	3550/ 5550		Physiological Chem I	3	
	PHCL	3700/ 5700		Pharmacology I	3	
	PHPR	3000/ 5020		Pharmaceutics and Dosage Form Design	5	
	PHPR	3050/ 5050		Interprofessional Approach to Patient Care	1	
	PHPR	3300/ 5320		Commonly Prescribed Meds & Med Terms I	1	
	PHPR	3450/ 5450		Pharmacy Skills Development-1	2	
	PHPR	3920/ 5920		IPPE-1	1	
					<b>18</b>	
<b>2nd Term Spring</b>						
	MBC	3552/ 5552		Physiological Chem II	2	MBC 3550 or 5550
	MBC	3860/ 5860		Microbiology for Pharmaceutical Professionals	2	MBC 3550 or 5550
	PHCL	4160/ 6160		Biopharmaceutics and Pharmacokinetics	3	
	PHM	3000/ 5000		Integrated Pharmaceutical and Clinical Sciences 1	6	MBC 3310 or 5310, PHCL 3700 or 5700, Coreq PHPR 3460 or 5460
	PHPR	3250/ 5250		Introduction to Self Care	1	PHCL 3700 or 5700, PHPR 3450 or 5450, Coreq PHPR 3460 or 5460
	PHPR	3310/ 5310		Introduction to Pharmacy Law	1	
	PHPR	3460/ 5460		Pharmacy Skills Development-2	2	PHPR 3450 or 5450
	PHPR	3930/ 5930		IPPE-2	1	PHPR 3920 or 5920
					<b>18</b>	
<b>3rd Term Fall</b>						
	PHM	4000/ 6500		Integrated Pharmaceutical and Clinical Sciences 2	8	MBC 3310 or 5310, PHCL 3700 or 5700, PHCL 4160 or 6160, PHM 3000 or 5000, Coreqs PHPR 4350 or 6350
	PHPR	4220/ 6200		Patient Centered Care	2	Coreq PHPR 4350 or 6350
	PHPR	4300/ 6390		Commonly Prescribed Meds & Med Term II	1	PHPR 3300 or 5320, Coreq PHPR 4350 or 6350
	PHPR	4350/ 6350		Pharmacy Skills Development-3	2	PHPR 3460 or 5460, Coreq PHPR 4220 or 6220
	PHPR	4530/ 6540		Evidence Based Medicine I	3	MTH 2640, Coreq PHPR 4350 or 6350
	PHPR	4920/ 6930		IPPE-3	1	PHPR 3930 or 5930
					<b>17</b>	
<b>4th Term Spring</b>						
	PHM	4200/ 6600		Integrated Pharmaceutical and Clinical Sciences 3	8	MBC 3310 or 5310, PHCL 3700 or 5700, PHM 3000 or 5000, Coreq PHPR 4360 or 6360
	PHPR	4270/ 6330		Health Systems	1.5	
	PHPR	4360/ 6360		Pharmacy Skills Development-4	2	PHPR 4350 or 6350, PHPR 4530 or 6540

	PHPR	4540/ 6560		Evidence Based Medicine II	2	PHPR 4530 or 6540, Coreq PHPR 4360 or 6360
	PHPR	4930/ 6970		IPPE-4	1	
					<b>14.5</b>	

The entry-level PharmD program students will complete a bachelor of science in pharmaceutical sciences degree prior to more focused course work in pharmacotherapy and pharmaceutical care. Students in the entry-level PharmD track who have completed the bachelor of science in pharmaceutical sciences degree at UToledo and meet progression standards are eligible to continue in the PharmD program

In order to graduate with a PharmD degree, students must meet the current academic performance standards. Only students who successfully complete the PharmD degree will qualify for licensure in the practice of pharmacy. A total of 126.5 semester hours is required for graduation with the bachelor of science in pharmaceutical sciences-PharmD track degree. A total of 69 semester hours in P3 and P4 is required for graduation with the PharmD degree.

### Graduate Component of the PharmD Program

TERM	SUBJECT	NUMBER		COURSE TITLE		COURSE REQUIREMENTS
<b>5th Term Summer</b>						
				Institutional IPPEs		
<b>6th Term Fall</b>						
	PHM	6000		Integrated Pharmaceutical and Clinical Sciences 4	7	Coreq PHPR 6460
	PHPR	6000		Drug Information Seminar <b>(fall or spring)</b>	2	
	PHPR	6220		Pharmacoeconomics and Outcomes Research	1	
	PHPR	6460		Pharmacy Skills Development-5	2	
	PHPR	6920		IPPE-5	1	
				Professional elective*	4	
					<b>15-17</b>	
<b>7th Term Spring</b>						
	PHM	6200		Integrated Pharmaceutical and Clinical Sciences 5	5	Coreq PHPR 6470
	PHPR	6000		Drug Information Seminar <b>(fall or spring)</b>	2	
	PHPR	6250		Advanced Self Care	3	PHPR 6460, coreq. PHPR 6470
	PHPR	6270		Business Aspects of Pharmacy	2	
	PHPR	6310		Jurisprudence and Ethics	1	
	PHPR	6470		Pharmacy Skills Development-6	2	
				Professional elective*	3	
				<b>Credit Hrs</b>	<b>16 - 18</b>	
				* A total of 7 credit hours of Graduate Professional Electives is required		
<b>8th Term Fall</b>						
	PHPR	8940-001		Clinical Clerkship I	4	
	PHPR	8940-002		Clinical Clerkship II	4	
	PHPR	8940-003		Clinical Clerkship III	4	
	PHPR	8940-004		Clinical Clerkship IV	4	
	PHPR	8940-005		Clinical Clerkship V	4	
					<b>20</b>	
<b>9th Term Spring</b>						
	PHPR	8940-005		Clinical Clerkship I	4	
	PHPR	8940-006		Clinical Clerkship II	4	
	PHPR	8940-007		Clinical Clerkship III	4	
	PHPR	8940-008		Clinical Clerkship IV	4	
					<b>16</b>	

**P3 and P4 Total hours**

**69**

**PharmD Professional Electives (need minimum of 7 credit hours)****MBC**

MBC	5100/7100	Ethical Conduct Research	1
MBC	5380	Medicinal & Poisonous Plants	3
MBC	5620/7620	Biochemical Techniques	2
MBC	6100/8100	Advanced Immunology	2
MBC	6190/8190	Advanced Medicinal Chemistry	4
MBC	6200/8200	Biomedical Chemistry	4
MBC	6400	Cannabis Science: Plants and Products	3
MBC	6980	Special Topics in Biomedical chemistry	1 to 5

**PHCL**

PHCL	5730	Toxicology I	3
PHCL	5750	Toxicology II	3
PHCL	5990	Problems in Pharmacology	1 to 6
PHCL	6400	Cannabis Science – Risks & Benefits	3
PHCL	6600	Seminar in Pharmacology	1

**PHPR**

PHPR	5000	Residency & Postgraduate Training Prep	1
PHPR	5010	Advanced Evidence Based Medicine	2
PHPR	5590	Readings Access & Cultural Competence	2
PHPR	5710	Selected Topics in Pharmaceutical Tech	2 to 3
PHPR	5720	Pharmaceutical Rate Processes	3
PHPR	5810	Finance & Personal Planning for Pharmacists	2
PHPR	5910	Drug-Induced Diseases	1
PHPR	5940	Managed Care Pharmacy	1
PHPR	5990	Problems in Pharmacy Practice	1 to 6
PHPR	6010	Leadership and the Military Pharmacist	2
PHPR	6400	Topics in Internal Medicine	2
PHPR	6410	Leadership: Principles and Practice	2
PHPR	6480	Exploring Novel Careers in Pharmacy	1
PHPR	6530	Research Methods in Pharmacy Practice	3
PHPR	6600	Seminar in Administrative Pharmacy	1
PHPR	6700	Special Topics in Diabetes Care	2
PHPR	6950	Seminar in Industrial Pharmacy	1
PHPR	6980	Special Topics	1 to 5

**PHM**

PHM	6400	Physical and Mental Effects of Psychoactive Substances	2
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**Additional Recommendations**

BUAD	6100	Accounting for Decision Making	3
BUAD	6200	Corporate Finance	3
BUAD	6300	Strategic Marketing & Analysis	3
BUAD	6400	Results Based Management	3
BUAD	6500	International Business	3
BUAD	6600	Supply Chain Management	3
BUAD	6800	Information Technology and E-Business	3
BUAD	6900	Strategic Management Capstone	3

CHEM	6510/8510	Protein Chemistry	4
COUN	6240	Diagnosis and Mental Health	4
COUN	6470/8470	Drugs and Mental Health Counseling	4
COUN	8460	Substance Abuse Counseling	4
EDP	5230	Adult Development	3
PUBH/ HEAL	6080/ 8080	Social Determinants of Health	3
PUBH	6330	Public Health and Aging	3
PUBH	6430	Community Mental Health	3
PUBH/ HEAL	6520/ 8520	Public Health Nutrition	3
SOC	5160	Health and Gender	3