

**Program of Study: Doctor of Pharmacy/PharmD - for P1 students entering in Fall 2021 and after
Preprofessional**

TERM	SUBJECT	NUMBER	COURSE TITLE	CR HRS	COURSE REQUIREMENTS
1st Term Fall					
	PHPR	1000	Orientation ¹	1	
	MATH	1850	Calculus I	4	*
	CHEM	1230	General Chemistry I	4	*
	CHEM	1280	General Chemistry Lab I	1	Coreq CHEM 1230
	BIOL	2170	Biomolecules, Cells, & Inheritance	4	
	BIOL	2180	Biomolecules, Cells, & Inheritance lab	1	Coreq BIOL 2170
				15	
2nd Term Spring					
	PHCL	2610	Introductory Physiology	3	BIOL2170
	MATH	2640	Statistics for Applied Science (or equivalent)* ²	3	
	CHEM	1240	General Chemistry II	4	CHEM 1230
	CHEM	1290	General Chemistry Lab II	1	Coreq CHEM1240
	ENGL	1110	English Comp I (UT Core Requirement)	3	
			Diversity of US ³	3	
				17	
3rd Term Fall					
	CHEM	2410	Organic Chemistry I	3	CHEM 1240
	CHEM	2460	Organic Chemistry Lab I	1	Coreq CHEM2410
	PHYS	1750	Introduction to Physics ¹	4	
	ENGL	1130	English Comp II (UT Core Requirement)	3	ENGL1110
			Social Sciences Core ³	3	
				14	
4th Term Spring					
	CHEM	2420	Organic Chemistry II	3	CHEM 2410
	CHEM	2470	Organic Chemistry Lab II	1	Coreq CHEM2420
			Social Sciences Core ³	3	
			Arts/Humanities Core ³	3	
			Arts/Humanities Core ³	3	
			Non-US Diversity ³	3	
				16	

¹ Only offered during fall semesters

² Not required prior to P1 for BSPS-only applicants

³ If double-dip, PREP courseload reduced by 3 hours

*Students accepted into the College of Pharmacy and Pharmaceutical Sciences should be academically prepared to be placed into MATH 1850 and CHEM 1230. Students placing into a lower math level - MATH 1200, MATH1320 or MATH1750 and/or placing into a lower level chemistry - CHEM 1090 (based on students' testing scores) will require additional hours for graduation

PharmD Professional Division

KEY - IPPE: Introductory Pharmacy Practice Experience

TERM	SUBJECT	NUMBER	COURSE TITLE		COURSE REQUIREMENTS
5th Term Fall					
	MBC	3310	Med Chem I: Drug Action and Design	2	CHEM 2420
	MBC	3550	Physiological Chem I	3	
	PHCL	3700	Pharmacology I	3	
	PHPR	3000	Pharmaceutics and Dosage Form Design	5	
	PHPR	3050	Interprofessional Approach to Patient Care	1	
	PHPR	3300	Commonly Prescribed Meds & Med Terms I	1	
	PHPR	3450	Pharmacy Skills Development-1	2	
	PHPR	3920	IPPE-1	1	
				18	
6th Term Spring					
	MBC	3552	Physiological Chem II	2	MBC 3550
	MBC	3860	Microbiology for Pharmaceutical Professionals	2	MBC3550
	PHCL	4160	Biopharmaceutics and Pharmacokinetics	3	
	PHM	3000	Integrated Pharmaceutical and Clinical Sciences 1	6	MBC 3310, PHCL 3700, Coreq PHPR 3460
	PHPR	3250	Introduction to Self Care	1	PHCL 3700, PHPR 3450, Coreq PHPR 3460
	PHPR	3310	Introduction to Pharmacy Law	1	
	PHPR	3460	Pharmacy Skills Development-2	2	PHPR 3450
	PHPR	3930	IPPE-2	1	PHPR 3920
				18	
7th Term Fall					
	PHM	4000	Integrated Pharmaceutical and Clinical Sciences 2	8	MBC 3310, PHCL 3700, PHPR 3470, PHM 3000, Coreqs PHPR 4350
	PHPR	4220	Patient Centered Care	2	Coreq PHPR 4350
	PHPR	4300	Commonly Prescribed Meds & Med Term II	1	PHPR 3300, Coreq PHPR 4350
	PHPR	4350	Pharmacy Skills Development-3	2	PHPR 3460, Coreq PHPR 4220
	PHPR	4530	Evidence Based Medicine I	3	MTH 2640, Coreq PHPR 4350
	PHPR	4920	IPPE-3	1	PHPR 3930
				17	
8th Term Spring					
	PHM	4200	Integrated Pharmaceutical and Clinical Sciences 3	8	MBC 3310, PHCL 3700, PHM 3000, Coreq PHPR 4360
	PHPR	4270	Health Systems	1.5	
	PHPR	4360	Pharmacy Skills Deveopment-4	2	PHPR 4350, PHPR 4530
	PHPR	4540	Evidence Based Medicine II	2	PHPR 4530, Coreq PHPR 4360
	PHPR	4930	IPPE-4	1	
				14.5	

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 graduate semester hours is required for graduation with the PharmD degree.

Graduate Component of the PharmD Program

TERM	SUBJECT	NUMBER	COURSE TITLE		COURSE REQUIREMENTS
9th Term Summer					
			Institutional IPPEs		
10th Term Fall					
	PHM	6000	Integrated Pharmaceutical and Clinical Sciences 4	7	Coreq PHPR 6460
	PHPR	6000	Drug Information Seminar (fall or spring)	2	
	PHPR	6220	Pharmacoeconomics and Outcomes Research	1	
	PHPR	6460	Pharmacy Skills Development-5	2	
	PHPR	6920	IPPE-5	1	
			Professional elective*	4	
				15-17	
11th Term Spring					
	PHM	6200	Integrated Pharmaceutical and Clinical Sciences 5	5	Coreq PHPR 6470
	PHPR	6000	Drug Information Seminar (fall or spring)	2	
	PHPR	6250	Advanced Self Care	3	PHPR 6460
	PHPR	6270	Business Aspects of Pharmacy	2	PHPR 6460
	PHPR	6310	Jurisprudence and Ethics	1	
	PHPR	6470	Pharmacy Skills Development-6	2	PHPR 6460
			Professional elective*	3	
			Credit Hrs	16 - 18	
* A total of 7 credit hours of Graduate Professional Electives is required					
12th Term Fall					
	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	
				20	
13th Term Spring					
	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	
				16	

Graduate Pharm D Total hours

69

Total for 6 years

195.5*

*If student double dips

PharmD Professional Electives

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	6420	Protein Chemistry/CHEM 6510/8510	2 or 4
MBC	6430/8430	Nucleic Acid Chem/CHEM 6530/8530	2 or 4
MBC	6440/8440	Enzymology/CHEM 6520/8520	2 or 4
MBC	6980	Special Topics in Biological 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	5680	Parenteral Manufacturing	2
PHPR	5690	Dosage Form Design	3
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	5870	Compounding Boot Camp	2
PHPR	5910	Drug-Induced Diseases	
PHPR	5990	Problems in Pharmacy Practice	1 to 6
PHPR	6400	Topics in Internal Medicine	2
PHPR	6410	Leadership: Principles and Practice	2
PHPR	6530	Research Methods in Pharmacy Practice	3
PHPR	6600	Seminar in Administrative Pharmacy	1
PHPR	6670	Chemical Dependency & The Pharmacist	3
PHPR	6700	Special Topics in Diabetes Care	2
PHPR	6810	Hospital Pharmacy Administration	3
PHPR	6820	Selected Topics in Hospital Pharmacy	3

PHPR	6830	Advanced Community Pharmacy Admin	3
PHPR	6840	Selected Topics in Community Pharmacy	3
PHPR	6950	Seminar in Industrial Pharmacy	1
PHPR	6980	Special Topics	1 to 5
PHPR	8540	Patient Monitoring Principles	3
PHM			
PHM	6400	Physical and Mental Effects of Psychoactive Substances	2
Additional Recommendations			
BUAD	6300	Strategic Marketing & Analysis	3
BUAD	6600	Supply Chain Management	3
BUAD	6900	Strategic Management Capstone	3
COMM	6260	Business Communication and Technology	3
COUN	6240	Diagnosis and Mental Health	4
COUN	6470/8470	Drugs and Mental Health Counseling	4
EDP	5210	Child Behavior and Development	3
EDP	5230	Adult Development	3
HEAL	5750	Obesity and Eating Disorders	3
HEAL	6530/8530	Drug Use and Misuse	3
MGMT	5110	Introduction to Management	3
PSC	5330	Healthcare Policy	3
PSY	6600	Behavioral Neuroscience	3
PUBH	6330	Public Health and Aging	3
SOC	5160	Health and Gender	3
The University of Florida, College of Pharmacy			
PHA	5239	Legal and Org Environ of Medicines Use	3
PHA	6935	Sel Topics in Pharmacy: Pharmaceutical Crimes Practice & Procedure	3
PHA	6935	Selected Topics in Pharmacy: Vet. Pharm	2
Mercer College of Pharmacy			
PHA	505	Community Pharmacy Ownership	2