

PharmD Professional Division

KEY - IPPE: Introductory Pharmacy Practice Experience

| TERM | SUBJECT | NUMBER | | COURSE TITLE | | COURSE REQUIREMENTS |
|------------------------|---------|------------|--|---|-----------|--|
| 1st Term Fall | | | | | | |
| | 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 | |
| | | | | | 18 | |
| 2nd Term Spring | | | | | | |
| | 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 |
| | | | | | 18 | |
| 3rd Term Fall | | | | | | |
| | 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 |
| | | | | | 17 | |
| 4th Term Spring | | | | | | |
| | 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 |

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| | PHPR | 4540/ 6560 | | Evidence Based Medicine II | 2 | PHPR 4530 or 6540, Coreq PHPR 4360 or 6360 |
| | PHPR | 4930/ 6970 | | 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 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 |
|------------------------|---------|----------|--|--|----------------|-----------------------------|
| 5th Term Summer | | | | | | |
| | | | | Institutional IPPEs | | |
| 6th 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 | |
| 7th 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, 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 | |
| | | | | Credit Hrs | 16 - 18 | |
| | | | | * A total of 7 credit hours of Graduate Professional Electives is required | | |
| 8th 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 | |
| 9th 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 | |

P3 and P4 Total hours

69

PharmD Professional Electives**MBC**

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|-----|-----------|--|--------|
| 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

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|------|------|-------------------------------------|--------|
| 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

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|------|------|---|--------|
| 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 | 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 | 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 | 6950 | Seminar in Industrial Pharmacy | 1 |
| PHPR | 6980 | Special Topics | 1 to 5 |

PHM

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|-----|------|--|---|
| PHM | 6400 | Physical and Mental Effects of Psychoactive Substances | 2 |
|-----|------|--|---|

Additional Recommendations

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| BUAD | 6300 | Strategic Marketing & Analysis | 3 |
| BUAD | 6600 | Supply Chain Management | 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 |

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| 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 |