

Combined Degree PharmD/MS Translational Pharmacology

Clinical Pharmacology and Clinical Trial Design Specialization				
Course	Title	Term	Credits	Waive/ Required
Pharmacology:				
BIOPHRM 5600	Introduction to General Pharmacology	AU, SP, SU	3	W
PHR 5005	Fundamentals of Pathophysiology	SU	3	W
BIOPHRM/CBG/PHR 5700	Intro. to Pers. Therapeutics & Pharmacogenomics	SP	3	W
PHR 7582	Organ System Toxicology	AU, SP	3	R*
PHR 7584	Applied Pharmacokinetics and Pharmacodynamics	SP	3	W
Biostatistics:				
PUBHBIO 6210	Design and Analysis of Studies in Health Sciences I	AU, SP, SU	3	R*
PUBHBIO 6211	Design and Analysis of Studies in Health Sciences II	AU, SP	3	R*
Conduct of Clinical Trials:				
BIOETHC 6010	Biomedical Research Ethics	AU, SP	3	R*
PHR 7560	Clinical Trials I: Design and Regulation	AU	3	R*
PHR 7561	Clinical Trials II: Management and Leadership	SP	3	R*
PHR 7550	Research Applications in Clinical Pharmacology	SU	3	R
Culminating Project:				
PHR 7595	Scientific Writing: Clinical Trial Protocol and Manuscript Development	AU, SP, SU	3	R*
Total Credits				24
Toxicology and Safety Pharmacology Specialization				
Course	Title	Term	Credits	Waive/ Required
Pharmacology/Toxicology:				
BIOPHRM 5600	Introduction to General Pharmacology	AU, SP, SU	3	W
PHR 5005	Fundamentals of Pathophysiology	SU	3	W
PHR 7582	Organ System Toxicology	AU, SP	3	R*
PHR 7584	Applied Pharmacokinetics and Pharmacodynamics	SP	3	W
PHR 7580	Principles of Safety Pharmacology	SP	3	R*
PHR 7583	Adv. Organ System Toxicology & Risk Assessment	SP	3	R*
PHR 7586	Integrative In Vivo Modeling for Drug Development	SU	3	R*
PHR 7588	Toxic Substances	SU	3	R*
Biostatistics:				
PHR 7784 or PUBHBIO 6210	Data Analysis & Interp. for Clinical & Preclinical Res. Design and Analysis of Studies in Health Sciences I	AU AU, SP, SU	3	R*
Conduct of Preclinical Studies:				
BIOBTHC 6010	Biomedical Research Ethics	AU, SP	3	R*
PHR 7562	Design and Management of Preclinical Studies	AU	3	R*
Culminating Project:				
PHR 7597	Scientific Writing: Preclinical Study Protocol and Manuscript Development	AU, SP, SU	3	R
Total Credits				27

Abbreviations: BIOETHC = Bioethics, BIOPHRM = Biological Chemistry and Pharmacology. CBG = Cancer Biology and Genetics. PHR = Pharmacy, PUBHBIO = Public Health Biostatistics

R = required for combined degree PharmD/MS Translational Pharmacology; W = waived for PharmD students

*Approved PharmD elective



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Applications received after a student has completed Spring semester of their P2 year may require additional semesters beyond the completion of the PharmD curriculum to complete the MS degree.

