

MS Translational Pharmacology
CLINICAL PHARMACOLOGY AND CLINICAL TRIAL DESIGN Specialization
 Sample Plans of Study

AUTUMN ENTRY – Full-time 12-Month Plan

Please note: 12-month plan of study is only available to students entering the program in autumn semester.

Year 1 – Autumn		Year 1 – Spring		Year 1 – Summer	
Course	credits	Course	credits	Course	credits
BIOPH/NUR/PHR 7560: Clinical Trials I: Design and Regulation (AU)	3	BIOPH/NUR/PHR 7561: Clinical Trials II: Site Management and Study Leadership (SP, prereq 7560)	3	PHR 5005: Fundamentals of Pathophysiology (SU) [1]	3
PUBHBIO 6210: Design and Analysis of Studies in the Health Sciences I (AU, SP, SU)	3	PUBHBIO 6211: Design and Analysis of Studies in the Health Sciences II (AU, SP, prereq 6210 grade B- or better)	3	BIOPHRM 7550: Research Applications in Clinical Pharmacology (SU, prereq 5600)	3
PHR 7582: Organ System Toxicology (AU, SP)	3	PHR 7584: Applied Pharmacokinetics and Pharmacodynamics (SP)	3	BIOPRHM 7598: Scientific Writing: Clinical Trial Protocol & Manuscript Development (AU, SP, SU)	3
BIOPHRM 5600: Introduction to General Pharmacology (AU, SP, SU) [2]	3	CBG/BIOPHRM/PHR 5700: Intro. to Personalized Therapeutics & Pharmacogenomics (SP)	3		
		BIOETHC 6010: Biomedical Research Ethics (AU, SP) <i>(may be taken in autumn if general pharmacology is waived)</i>	3		
	9-12		12-15		6-9

The MS Pharmacology degree requires a minimum of 30 credits. Adjustments may be made to the sample plans of study as follows:

[1] PHR 5005 is waived for students who have completed a pathophysiology coursework at any level (undergraduate or graduate). May substitute HTHRHS 5500 (Introduction to Pathophysiology, 4 credits, AU SP)

[2] BIOPRHM 5600 is waived for students who have completed a general pharmacology course at the graduate level.

CLINICAL PHARMACOLOGY AND CLINICAL TRIAL DESIGN Specialization

Sample Plans of Study

AUTUMN ENTRY – Part-time 24-Month Plan

Year 1 – Autumn		Year 1 – Spring		Year 1 – Summer	
Course	credits	Course	credits	Course	credits
BIOPH/NUR/PHR 7560: Clinical Trials I: Design and Regulation (AU)	3	BIOPH/NUR/PHR 7561: Clinical Trials II: Site Management and Study Leadership (SP, prereq 7560)	3	PHR 5005: Fundamentals of Pathophysiology (SU) [1]	3
BIOPHRM 5600: Introduction to General Pharmacology (AU, SP, SU) [2]	3	PHR 7584: Applied Pharmacokinetics and Pharmacodynamics (SP)	3	PUBHBIO 6210: Design and Analysis of Studies in the Health Sciences I (AU, SP, SU) <i>(note: accelerated 8-week session)</i>	3
				PUBHBIO 6210: Design and Analysis of Studies in the Health Sciences I (AU, SP, SU)	
	6		6		0-6
Year 2 – Autumn		Year 2 – Spring		Year 2 – Summer	
Course	credits	Course	credits	Course	credits
BIOETHC 6010: Biomedical Research Ethics (AU, SP)	3	PUBHBIO 6211: Design and Analysis of Studies in the Health Sciences II (AU, SP, prereq 6210 grade B- or better)	3	BIOPHRM 7550: Research Applications in Clinical Pharmacology (SU, prereq 5600, 7584)	3
PHR 7582: Organ System Toxicology (AU, SP)	3	CBG/BIOPHRM/PHR 5700: Intro. to Personalized Therapeutics & Pharmacogenomics (SP)	3	BIOPHRM 7598: Scientific Writing: Clinical Trial Protocol & Manuscript Development (AU, SP, SU)	3
	6		6		6

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[2] BIOPHRM 5600 is waived for students who have completed a general pharmacology course at the graduate level.

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Sample Plans of Study

SPRING ENTRY – Part-time 24-Month Plan

Year 1 – Spring		Year 1 – Summer		Year 1 – Autumn	
Course	credits	Course	credits	Course	credits
PHR 7584: Applied Pharmacokinetics and Pharmacodynamics (SP)	3	BIOPHRM 5600: Introduction to General Pharmacology (AU, SP, SU) [2]	3	BIOPH/NUR/PHR 7560: Clinical Trials I: Design and Regulation (AU)	3
CBG/BIOPHRM/PHR 5700: Intro. to Personalized Therapeutics & Pharmacogenomics (SP)	3	PUBHBIO 6210: Design and Analysis of Studies in the Health Sciences I (AU, SP, SU) <i>(note: accelerated 8-week session)</i>	3	BIOETHC 6010: Biomedical Research Ethics (AU, SP)	3
	6		3-6		6
Year 2 – Spring		Year 2 – Summer		Year 2 – Autumn	
Course	credits	Course	credits	Course	credits
BIOPH/NUR/PHR 7561: Clinical Trials II: Site Management and Study Leadership (SP, prereq 7560)	3	BIOPHRM 7550: Research Applications in Clinical Pharmacology (SU, prereq 5600, 7584)	3	PHR 7582: Organ System Toxicology (AU, SP)	3
PUBHBIO 6211: Design and Analysis of Studies in the Health Sciences II (AU, SP, prereq 6210 grade B- or better)	3	PHR 5005: Fundamentals of Pathophysiology (SU) [1]	3	BIOPRHM 7598: Scientific Writing: Clinical Trial Protocol & Manuscript Development (AU, SP, SU)	3
	6		3-6		6

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[1] PHR 5005 is waived for students who have completed a pathophysiology coursework at any level (undergraduate or graduate). May substitute HTHRHSC 5500 (Introduction to Pathophysiology, 4 credits, AU SP)

[2] BIOPRHM 5600 is waived for students who have completed a general pharmacology course at the graduate level.

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Sample Plans of Study

SUMMER ENTRY – Part-time 24-Month Plan

Year 1 – Summer		Year 1 – Autumn		Year 1 – Spring	
Course	credits	Course	credits	Course	credits
PHR 5005: Fundamentals of Pathophysiology (SU) [1]	3	BIOPH/NUR/PHR 7560: Clinical Trials I: Design and Regulation (AU)	3	BIOPH/NUR/PHR 7561: Clinical Trials II: Site Management and Study Leadership (SP, prereq 7560)	3
BIOPHRM 5600: Introduction to General Pharmacology (AU, SP, SU) [2]	3	BIOETHC 6010: Biomedical Research Ethics (AU, SP)	3	PHR 7584: Applied Pharmacokinetics and Pharmacodynamics (SP)	3
	0-6		6		6
Year 2 – Summer		Year 2 – Autumn		Year 2 – Spring	
Course	credits	Course	credits	Course	credits
PUBHBIO 6210: Design and Analysis of Studies in the Health Sciences I (AU, SP, SU) <i>(note: accelerated 8-week session)</i>	3	PUBHBIO 6211: Design and Analysis of Studies in the Health Sciences II (AU, SP, prereq 6210 grade B- or better)	3	CBG/BIOPHRM/PHR 5700: Intro. to Personalized Therapeutics & Pharmacogenomics (SP)	3
BIOPHRM 7550: Research Applications in Clinical Pharmacology (SU, prereq 5600, 7584)	3	PHR 7582: Organ System Toxicology (AU, SP)	3	BIOPHRM 7598: Scientific Writing: Clinical Trial Protocol & Manuscript Development (AU, SP, SU)	3
	6		6		6

The MS Pharmacology degree requires a minimum of 30 credits. Adjustments may be made to the sample plans of study as follows:

[1] PHR 5005 is waived for students who have completed a pathophysiology coursework at any level (undergraduate or graduate). May substitute HTHRHSC 5500 (Introduction to Pathophysiology, 4 credits, AU SP)

[2] BIOPHRM 5600 is waived for students who have completed a general pharmacology course at the graduate level.