

MS Translational Pharmacology
CLINICAL PHARMACOLOGY AND CLINICAL TRIAL DESIGN Specialization

Plan of Study Worksheet

(Revised: 12/19/2023)

AUTUMN ENTRY – Full-time 12-month plan

Please Note: 12-month plan of study is only available to students entering the program in autumn semesters

Year 1 – Autumn

Course	Credit
PHR 7560: Clinical Trials I: Design and Regulation (AU)	3
PUBHBIO 6210: Applied Biostatistics I (AU, SU)	3
PHR 7582: Organ System Toxicology (AU, SP)	3
BIOPHRM 5600: Introduction to General Pharmacology (AU, SP, SU) [2]	3
Total credit hours:	9-12

Year 1 – Spring

Course	Credit
NUR 7561: Clinical Trials II: Site Management and Study Leadership (SP, prereq 7560)	3
PUBHBIO 6211: Applied Biostatistics II (AU, SP, prereq 6210 grade B- or better)	3
PHR 7584: Applied Pharmacokinetics and Pharmacodynamics (SP)	3
CBG 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
Total credit hours:	12-15

Year 1 – Summer

Course	Credit
PHR 5005: Fundamentals of Pathophysiology (SU) [1]	3
PHR 7550: Research Applications in Clinical Pharmacology (SU, prereq 5600)	3
PHR 7595: Scientific Writing: Clinical Trial Protocol & Manuscript Development (AU, SP, SU)	3
Total credit hours:	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 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.

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AUTUMN ENTRY – Part-time 24-month plan

Year 1 – Autumn

Course	Credit
PHR 7560: Clinical Trials I: Design and Regulation (AU)	3
BIOPHRM 5600: Introduction to General Pharmacology (AU, SP, SU) [2]	3
Total credit hours:	6

Year 1 – Spring

Course	Credit
NUR 7561: Clinical Trials II: Site Management and Study Leadership (SP, prereq 7560)	3
PHR 7584: Applied Pharmacokinetics and Pharmacodynamics (SP)	3
Total credit hours:	6

Year 1 – Summer

Course	Credit
PHR 5005: Fundamentals of Pathophysiology (SU) [1]	3
PUBHBIO 6210: Applied Biostatistics I (AU, SU) <i>(note: accelerated 8-week session)</i>	3
Total credit hours:	6

Year 2 – Autumn

Course	Credit
PUBBIO 6211: Applied Biostatistics II(AU, SP, prereq 6210 grade B- or better)	3
BIOETHC 6010: Biomedical Research Ethics (AU, SP)	3
Total credit hours:	6

Year 2 – Spring

Course	Credit
PHR 7582: Organ System Toxicology (AU, SP)	3
CBG 5700: Intro to Personalized Therapeutics & Pharmacogenomics (SP)	3
Total credit hours:	6

Year 2 – Summer

Course	Credit
PHR 7550: Research Applications in Clinical Pharmacology (SU, prereq 5600& 7584)	3
PHR 7595: Scientific Writing: Clinical Trial Protocol & Manuscript Development (AU, SP, SU)	3
Total credit hours:	6

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SPRING ENTRY – Part-time 24-month plan

Year 1 – Spring

Course	Credit
PHR 7584: Applied Pharmacokinetics (SP)	3
CBG 5700: Intro. to Personalized Therapeutics & Pharmacogenomics (SP)	3
Total credit hours:	6

Year 1 – Summer

Course	Credit
BIOPHRM 5600: Intro. to General Pharmacology (AU, SP, SU) [2]	3
PUBHBIO 6210: Applied Biostatistics I (AU, SU) <i>(note: accelerated 8-week session)</i>	3
Total credit hours:	6

Year 1 – Autumn

Course	Credit
PHR 7560: Clinical Trials I: Design and Regulation (AU)	3
PUBHBIO 6211: Applied Biostatistics II (AU, SP, prereq 6210 grade B- or better)	3
Total credit hours:	6

Year 2 – Spring

Course	Credit
NUR 7561: Clinical Trails II: Site Management and Study Leadership (SP, prereq 7560)	3
BIOETHC 6010: Biomedical Research Ethics (AU, SP)	3
Total credit hours:	6

Year 2 – Summer

Course	Credit
PHR 7550: Research Applications in Clinical Pharmacology (SP, prereq 5600, 7584)	3
PHR 5005: Fundamentals of Pathophysiology (SU) [1]	3
Total credit hours:	6

Year 2 – Autumn

Course	Credit
PHR 7584: Organ System Toxicology (AU, SP)	3
PHR 7595: Scientific Writing: Clinical Trial Protocol & Manuscript Development (AU, SP, SU)	3
Total credit hours:	6

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SUMMER ENTRY – Part-time 24-month plan

Year 1 – Summer

Course	Credit
PHR 5005: Fundamentals of Pathophysiology (SP) [1]	3
BIOPHRM 5600: Intro. to General Pharmacology (AU, SP, SU) [2]	3
Total credit hours:	6

Year 1 – Autumn

Course	Credit
PHR 7560: Clinical Trials I: Design and Regulation (AU)	3
BIOETHC 6010: Biomedical Research Ethics (AU, SP)	3
Total credit hours:	6

Year 1 – Spring

Course	Credit
NUR 7561: Clinical Trails II: Site Management and Study Leadership (SP, prereq 7560)	3
PHR 7584: Applied Pharmacokinetics and Pharmacodynamics (SP)	3
Total credit hours:	6

Year 2 – Summer

Course	Credit
PUBHBIO 6210: Applied Biostatistics I (AU, SU) <i>(note: accelerated 8-week session)</i>	3
PHR 7550: Research Applications in Clinical Pharmacology (SP, prereq 5600, 7584)	3
Total credit hours:	6

Year 2 – Autumn

Course	Credit
PUBHBIO 6211: Applied Biostatistics II (AU, SP, prereq 6210 grade B- or better)	3
PHR 7584: Organ System Toxicology (AU, SP)	3
Total credit hours:	6

Year 2 – Spring

Course	Credit
CBG 5700: Intro. to Personalized Therapeutics & Pharmacogenomics (SP)	3
PHR 7595: Scientific Writing: Clinical Trial Protocol & Manuscript Development (AU, SP, SU)	3
Total credit hours:	6

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- [1] PHR 5005 is waived for students who have completed 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.