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
BIOPHRM 5600: Introduction to	3
General Pharmacology (AU, SP, SU)	
[2]	
PHR 7562: Design and	3
Management of Preclinical	
Studies (AU)	
PHR 7784: Data Analysis and	3
Interpretation for Clinical and	
Preclinical Research (AU)	
PHR 7582: Organ System	3
Toxicology (AU, SP)	
Total credit hours:	9-12

Year 1 – Spring

Course	Credit
PHR 7580: Principles of Safety	3
Pharmacology (SP)	
PHR 7583: Advanced Organ System	3
Toxicology and Risk Assessment (SP,	
prereq 7582)	
PHR 7584: Applied Pharmacokinetics	3
and Pharmacodynamics (SP)	
BIOETHC 6010: Biomedical Research	3
Ethics (AU, SP)	
Total credit hours:	12

Year 1 – Summer

Course	Credit
PHR 5005: Fundamentals of	3
Pathophysiology (SU) [1]	
PHR 7586: Integrative In Vivo	3
Modeling for Drug Development	
(SU, prereq 7582)	
PHR 7588: Toxic Substances	3
(SU, prereq 7582)	
PHR 7597: Scientific Writing:	3
Preclinical Study Protocol and	
Manuscript Development (AU,	
SP, SU)	
Total credit hours:	9-12

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)



Plan of Study Worksheet

(Revised: 12/19/2023)

AUTUMN ENTRY - Part-time 24-month plan

Credit

3

3

6

Year 1 – Autumn

Year 2 – Autumn

BIOETHC 6010: Biomedical

Interpretation for Clinical and Preclinical Research (AU) Total credit hours:

Research Ethics (AU, SP) PHR 7784: Data Analysis and

Course

Course	Credit
PHR 7562: Design and	3
Management of Preclinical Studies	
(AU)	
BIOPHRM 5600: Introduction to	3
General Pharmacology (AU, SP, SU)	
[2]	
Total credit hours:	6

Year 1 – Spring

Course	Credit
PHR 7582: Organ System	3
Toxicology (AU, SP)	
PHR 7584: Applied Pharmacokinetics	3
and Pharmacodynamics (SP)	
Total credit hours:	3-6

Year 2 – Spring

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Course	Credit
PHR 7580: Principles of Safety	3
Pharmacology (SP)	
PHR 7583: Advanced Organ System	3
Toxicology and Risk Assessment (SP,	
prereq 7582)	
Total credit hours:	6

Year 1 – Summer

Course	Credit
PHR 5005: Fundamentals of	3
Pathophysiology (SU) [1]	
PHR 7586: Integrative In Vivo	3
Modeling for Drug Development	
(SU, prereq 7582)	
Total credit hours:	3-6

Year 2 – Summer

Course	Credit
PHR 7588: Toxic Substances (SU,	3
prereq 7582)	
PHR 7597: Scientific Writing:	3
Preclinical Study Protocol and	
Manuscript Development (AU, SP,	
SU)	
Total credit hours:	6

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

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Plan of Study Worksheet

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SPRING ENTRY – Part-time 24-month plan

Year 1 – Spring

Course	Credit
PHR 7580: Principles of Safety	3
Pharmacology (SP)	
PHR 7584: Applied	3
Pharmacokinetics and	
Pharmacodynamics (SP)	
Total credit hours:	6

Year 2 – Spring

Course	Credit
BIOETHC 6010: Biomedical	3
Research Ethics (AU, SP)	
PHR 7583: Advanced Organ	3
System Toxicology and Risk	
Assessment (SP, prereq 7582)	
Total credit hours:	6

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

Year 2 – Summer

Course	Credit
PHR 7586: Integrative In Vivo	3
Modeling for Drug Development	
(SU, prereq 7582)	
PHR 7588: Toxic Substances (SU,	3
prereq 7582)	
Total credit hours:	6

Year 1 – Autumn

Course	Credit
PHR 7562: Design and	3
Management of Preclinical	
Studies (AU)	
PHR 7582: Organ System	3
Toxicology (AU, SP)	
Total credit hours:	6

Year 2 – Autumn

Course	Credit
PHR 7784: Data Analysis and	3
Interpretation for Clinical and	
Preclinical Research (AU)	
PHR 7597: Scientific Writing:	3
Preclinical Research (AU, SP, SU)	
Total credit hours:	6

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

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substitute HTHRHSC 5500 (Introduction to Pathophysiology, 4 credits, AU, SP)



Plan of Study Worksheet

(Revised: 12/19/2023)

SUMMER ENTRY – Part-time 24-month plan

Year 1 – Summer

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

Course	Credit
PHR 7562: Design and	3
Management of Preclinical Studies	
(AU)	
PHR 7582: Organ System	3
Toxicology (AU, SP)	
Total credit hours:	6

Year 1 – Spring

Course	Credit
PHR 7580: Principles of Safety	3
Pharmacology (SP)	
PHR 7584: Applied	3
Pharmacokinetics and	
Pharmacodynamics (SP)	
Total credit hours:	6

Year 2 – Summer

Course	Credit
PHR 7586: Integrative In Vivo	3
Modeling for Drug Development	
(SU, prereq 7582)	
PHR 7588: Toxic Substances (SU,	3
prereq 7582)	
Total credit hours:	6

Year 2 – Autumn

Course	Credit
PHR 7784: Data Analysis and	3
Interpretation for Clinical and	
Preclinical Research (AU)	
BIOETHC: Biomedical Research	3
Ethics (AU, SP)	
Total credit hours:	6

Year 2 – Spring

Course	Credit
PHR 7583: Advanced Organ	3
System Toxicology and Risk	
Assessment (SP, prereq 7582)	
PHR 7597: Scientific Writing:	3
Preclinical Study Protocol and	
Manuscript Development (AU, SP,	
SU)	
Total credit hours:	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 pathophysiology coursework at any level (undergraduate or graduate). May substitute HTHRHSC 5500 (Introduction to Pathophysiology, 4 credits, AU, SP)

