



Drug Discovery and Development Pathway

General Education Requirements

Course	Requirement	Hours
GENED 1201	GE Launch Seminar	1
ENG 1110.xx	Foundations: Writing & Information Literacy	3
<i>Fulfilled by major</i>	Foundations: Mathematical & Quantitative Reasoning	4-5
<i>See course catalog</i>	Foundations: Literary, Visual, & Performing Arts	3
<i>See course catalog</i>	Foundations: Historical & Cultural Studies	3
<i>Fulfilled by major</i>	Foundations: Natural Sciences	4-5
<i>See course catalog</i>	Foundations: Social & Behavioral Sciences	3
<i>See course catalog</i>	Foundations: Race, Ethnicity & Gender Diversity	3
<i>See course catalog</i>	Themes: Citizenship for a Diverse & Just World	4-6
<i>See course catalog</i>	Themes: Choice Theme	4-6
GENED 4001	GE Reflection Seminar	1

Science & Math Requirements

Course	Title	Hours	Prerequisites
MATH 1151	Calculus	5	See course catalog
STAT 1450, 2450 or 2480	Statistics (algebra-based or calculus-based); or, Statistics for the Life Sciences	3 3	Varies based on selection; see course catalog
CHEM 1210	General Chemistry I	5	See course catalog
CHEM 1220	General Chemistry II	5	CHEM 1210
BIO 1113.xx	Biological Sciences: Energy Transfer & Development	4-5	See course catalog
CHEM 2510	Organic Chemistry I	4	CHEM 1220
CHEM 2540	Organic Chemistry I Lab	2	CHEM 2510 (concurrent)
CHEM 2520	Organic Chemistry II	4	CHEM 2510
PHR 3100	Human Physiology & Disease	4	BIO 1113 and CHEM 1210

BSPS Core Requirements

Course	Hours	Title	Term	Prerequisites
PHR 1100	1	Pharmaceutical Sciences Survey	AU, SP	None
PHR 2100	0.5	Career Development in Pharmaceutical Sciences I	AU only	None
PHR 2101	0.5	Career Development in Pharmaceutical Sciences II	SP only	PHR 2100
PHR 2530	2	Introduction to Pharmaceutical Sciences Research	AU only	None
PHR 2500	3	Drug Discovery, Development, and Delivery	ALL	None
PHR 2367.xx	3	Drug Use in American Culture	ALL	ENG 1110 or equiv.
PHR 3500	2	Pharmacoethics: Dilemmas and Decision-making	AU, SP	None
PHR 3200	5	Biochemistry for Pharmaceutical Sciences	AU only	CHEM 2520
PHR 4600	3	Pharmaceutical Sciences Lab	AU, SP	PHR 3200 or equiv. (concur); PHR 2540
PHR 4000	5	Molecules to Medicines I	SP only	PHR 3200
PHR 4610	4	Experimental Techniques in Drug Discovery	AU only	PHR 3200 or equiv.
PHR 4010	5	Molecules to Medicines II	AU only	PHR 4000 and PHR 3100 or equiv.

Drug Discovery and Development Pathway, cont.

Additional BPS Coursework

Choice Sciences	Complete 14 credit hours
Pharmacy Electives	Complete 10 credit hours

Sample Curriculum Plan

****This is a **sample**. Always meet with an advisor to discuss a plan of study that's specific to YOU.**

Autumn			Spring		
PHR 1100*	1	Survey	MATH 1151	5	Calculus 1
PHR 2500	3	Drug Dis/Dev/Delivery	CHEM 1220*	5	Gen. Chem. II
CHEM 1210*	5	Gen. Chem. I	ENG 1110.xx	3	GE WIL
GE	3	LVPA	GENED 1201	1	Launch Seminar
PHR 2100*	.5	Career Devo I	PHR 3500	2	Pharmacoethics
GE	3	Health & Wellbeing			
	15.5			16	

Autumn			Spring		
CHEM 2510*	4	Organic Chemistry I	CHEM 2520*	4	Organic Chemistry II
CHEM 2540	2	O-Chem I Lab	BIO 1113.xx	4	Biology
STAT 2480	3	Stats. Life Sci.	GE	3	REGD
PHR 2530	2	Intro to Pharm. Sci. Research	GE	3	Historical/Cultural Studies
GE	3	Social/Beh. Sci.	PHR-	2	BSPS Elective
PHR-	2	BSPS Elective			
	16			16	

Autumn			Spring		
PHR 3200*	5	Biochemistry	PHR 4000*	5	Molecules to Medicines
PHR 4600	3	Pharm. Sci. Lab	PHR 3100	4	Physiology
GE	3	Citizenship Div/Just World	PHR-	3	BSPS Elective
-	4	Choice Science	-	3	Choice Science
			PHR 2101	.5	Career Devo II
	15			15.5	

Autumn			Spring		
PHR 4010*	5	Molecules to Medicines II	GE	3	Citizenship Div/Just World
PHR 4610*	4	Experimental Tech. Drug Dis.	-	4	Choice Science
GE	3	Health & Wellbeing	PHR-	3	BSPS Elective
--	3	Choice Science	PHR 2367.xx	3	Drugs / American Culture
			GENED 4001	1	Reflection Seminar
	15			14	

*** Keep in semester shown. Moving these may affect timeline to degree.**

Note that CHEM1210 and MATH1151 enrollment may depend upon Math Placement Test.