

Saint Joseph's University

BS Pharmaceutical Sciences & Drug Development GEP Curriculum Requirements (126 credits)

Name _____

ID # _____

General Education Program (GEP)

Signature Core (19 credits)

Sem.		Course #
	First Year Seminar (<i>PHS 150 Pharm Science FYS strongly recommended</i>)	
	PHL 154 Moral Foundations	
	THE 154 Faith, Justice & the Catholic Tradition	
	ENG 102 Texts and Contexts	
	HIS 154 Forging the Modern World	
	<u>Faith and Reason</u> Course (pre-reqs: THE 154 and PHL 154)*	
	INT 151 Inequality in American Society (<i>Required for students entering Fall 2023 and later</i>)	

Variable Courses (The number of credits vary depending on language placement)

	<u>Art, Music/Theatre/Film, or Lit</u>	
	Math Beauty (MAT 155, MAT 161, or higher level calculus, based on placement)	
	BIO 101 & 101L Bio I: Cells + Lab	
	<u>Non-Native Language I</u> (Based on Language Placement)	
	<u>Non-Native Language II</u> (Based on Language Placement)	
	Social/Behavioral Science (SOC, PSY, ECN, or POL))	
	<u>Philosophical Anthro</u> (pre-req: PHL 154)	
	<u>Religious Difference</u> (THE or REL)	
	English 101 Craft of Language	

Integrative Learning Courses (12 credits)

	BIO 102/102L BIO II: Genetics + Lab
	CHM 120/120L General Chemistry I + Lab
	PHY 101/101L General Physics I + Lab

Overlays (4 overlays req. (EI, WI, DGNW, DIV). May be combined with other GEP requirements, major courses, or electives.)

	Writing-Intensive (Pre-req: ENG 101)	
	Ethics-Intensive (pre-req: PHL 154)	
	Diversity/Global/Non-Western	
	Diversity (Class of 2025 forward only)	

Major Requirements (49 credits)

Sem.

	CHM 125/125L General Chemistry II + Lab (4 Cr)
	CHM 210/210L Organic Chemistry I + Lab (4 Cr)
	CHM 215/215L Organic Chemistry II + Lab (4 Cr)
	PHY 102/102:L General Physics II + Lab (4 Cr)
	PHS 200 Biopharmaceutical Foundation I (3 Cr)
	PHS 300 Biopharmaceutical Foundation II (2 Cr)
	PHS 302 Intro Lab Techniques in Biomedicine (3 Cr)
	PHS 303 Pharmaceutics and Biopharmaceutics I (lecture and lab) (3 Cr)
	PHS 304 Intro to Drug Discovery & Development (3 Cr)
	PHS 305 Fundamentals of Pharmacology (3 Cr)
	PHS 306 Advanced Biomedical Methods (3 Cr)
	PHS 309 Pharmaceutics and Biopharmaceutics II (3 Cr)
	PHS 404 Seminar in Pharmaceutical Sciences (1 Cr)
	PHS 411/411L Drug Development I: Manufacturing Pharmacy + Lab (3 Cr)M
	PHS 413 Drug Development II: Formulation (Controlled-Release Dosage Form) (3 Cr)
	PHS 414/414L Advanced Pharmaceutical Analysis + Lab (3 Cr)

Electives (Minimum 18 elective credits required for graduation.)

	Free Elective	MAT 120 Precalculus (if needed, based on placement)
	Free Elective	
	Free Elective	
	Free Elective	
	Free Elective	
	Free Elective	

Typical Course Sequence

First Year					
Fall	Cred.		Spring	Cred.	
CHM 120 & 120L General Chemistry I + Lab	4	☐	CHM 125 & 125L General Chemistry II + Lab	4	☐
MAT 120 Precalculus* or MAT 155 Fundamentals of Calculus (based on placement - see note below)	3	☐	MAT 155 Fundamentals of Calculus or PHL 154	3	☐
BIO 101 & 101L Bio I: Cells + Lab	4	☐	BIO 102 & 102L Bio II: Genetics + Lab	4	☐
ENG 101 Craft of Language (writing)	3	☐	ENG 102 Texts and Contexts	3	☐
PHS 150 Pharm Science FYS or other First Year Seminar	3	☐	INT 151 Inequality in American Society	1	☐
	17			15	
Sophomore Year					
Fall	Cred.		Spring	Cred.	
CHM 210 & 210L Organic Chemistry I + Lab	4	☐	CHM 215 & 215L Organic Chemistry II + Lab	4	☐
PHY 101 & 101L General Physics I + Lab	4	☐	PHY 102 & 102L General Physics II + Lab	4	☐
Non-Native Language I (based on placement)	3 or 4	☐	Non-Native Language II (based on placement)	3 or 4	☐
PHL 154 Moral Foundations or THE Signature Core	3	☐	PHS 200 Biopharmaceutical Foundation I	3	☐
Social/Behavioral Science	3	☐	HIS 154 Forging the Modern World	3	☐
	17/18			17/18	
Junior Year					
Fall	Cred.		Spring	Cred.	
PHS 300 Biopharmaceutical Foundation II	2	☐	PHS 304 Introduction to Drug Discovery & Dev. (DDD)	3	☐
PHS 302 and PHS 302L Intro Lab Techniques in Biopharmaceutics	3	☐	PHS 306 and PHS 306 L Advanced Biomedical Methods	3	☐
PHS 303 Pharmaceutics & Biopharmaceutics I + Lab (PHS 308 3crs + PHS 308 L (0 credits))	3	☐	PHS 309 Pharmaceutics and Biopharmaceutics II	3	☐
Philosophical Anthropology	3	☐	Faith and Reason Course	3	☐
Theology Signature Core or elective	3	☐	Elective (overlay, if needed)	3	☐
Elective (overlay, if needed)	3	☐			
	17			15	
Senior Year					
Fall	Cred.		Spring	Cred.	
PHS 404 Seminar in Pharmaceutical Sciences	1	☐	PHS 305 Fundamental of Pharmacology	3	☐
PHS 411/411L Drug Development I: Manufacturing Pharmacy + Lab	3	☐	PHS 414/414L Adv.Pharmaceutical Analysis + Lab	3	☐
PHS 413 Drug Development II: Formulation (controlled release dosage form)	3	☐	Art/Lit	3	☐
Religious Difference	3	☐	Elective	3	☐
Elective	3	☐	Elective (if needed)	3	☐
Elective	3	☐			

	16			12-15	
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Notes:

- Calculus is required for the major; however, the first semester of math is based on a student's math placement. If a student places into MAT 120 Precalculus, they must take this course before calculus (MAT 155 or MAT 161). The MAT 120 course will count toward the 18 credit elective requirement.

Department Contact information

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