

Saint Joseph's University

BS Pharmacology & Toxicology GEP Curriculum Requirements (128 credits)

Name _____

ID # _____

General Education Program (GEP)

Signature Core (19 credits)

Sem.	Course #
	First Year Seminar (<i>PHT 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 (51 credits)

Sem.	
	CHM125/125L 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 301 Biopharmaceutical Foundation III (3 Cr)
	PHS 302 Introductory Laboratory Techniques in Biomedicine (3 Cr)
	PHS 304 Intro to Drug Discovery & Development (3 Cr)
	PHT 305 Fundamental of Pharmacology (3 Cr)
	PHS 306 Advanced Biomedical Methods (3 Cr)
	PHT 307 Introduction to Toxicology (2 Cr)
	PHT 402 Advanced Pharmacology (3 Cr)
	PHT 403 Advanced Toxicology (3 Cr)
	PHT 404 Pharmacology & Toxicology Sem II (1 Cr)
	PHT 405 Pharmacology in Drug Discovery (3 Cr)
	PHT 407 Applied Toxicology (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	☐
First Year Seminar (PHS 150 strongly recommended)	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 or 18			17 or 18	
Junior Year					
Fall	Cred.		Spring	Cred.	
PHS 300 Biopharmaceutical Foundation II	2	☐	PHS 304 Introduction to Drug Discovery & Development	3	☐
PHS 301 Biopharmaceutical Foundation III (replaced by Systems Physiology PHS 312)	3	☐	PHT 305 Fundamentals of Pharmacology	3	☐
PHS 302 and PHS 302L Introductory Laboratory Techniques in Biomedicine	3	☐	PHS 306 Advanced Biomedical Methods PHS 306 and PHS 306 L	3	☐
Philosophical Anthropology	3	☐	PHT 307 Introduction to Toxicology	2	☐
Theology Signature Core or elective	3	☐	Faith and Reason Course	3	☐
Elective (overlay, if needed)	3	☐	Elective (overlay, if needed)	3	☐
	17			17	
Senior Year					
Fall	Cred.		Spring	Cred.	
PHT 402 Advanced Pharmacology	3	☐	PHT 405 Pharmacology in Drug Discovery	3	☐
PHT 403 Advanced Toxicology	3	☐	PHT 407 Applied Toxicology	3	☐
PHS 404 Pharmacology & Toxicology Sem II	1	☐	Art/Lit	3	☐
Religious Difference	3	☐	Elective	3	☐
Elective	3	☐	Elective (if needed)	3	☐

Elective	3	☐			☐
	16			12-15	

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

Department Chair

Isabelle Mercier, PhD, Chair
 Department of Pharmaceutical Sciences
 Pharmacology and Toxicology Center (PTC), Room #242
imercier@sju.edu
 215-596-7151

Vice Chair

Zhiyu Li, PhD
 Department of Pharmaceutical Sciences
 Pharmacology and Toxicology Center (PTC), Room #240
zli@sju.edu
 215-596-8943