

Saint Joseph's University

BS Biomedical Sciences Major Curriculum Requirements *(For Students entering Fall 2023 and later)*

Name: _____

ID # _____

General Education Program (GEP)

[Signature Core](#) (19 credits)

Sem.		Course #
	First Year Seminar(XXX150). BIO 150L Phage Lab also meets the FYS req.	
	PHL 154 Moral Foundations	
	Theology Signature Core (THE 153, 154, or 155)	
	ENG 102 Texts and Contexts (<i>pre-req: ENG 101</i>)	
	HIS 154 Forging the Modern World	
	Faith & Reason (<i>pre-reqs: THE154 & PHL154</i>)	
	INT 151 Inequality in American Society (Required for students entering Fall 2023 and later)	

Variable Courses (Number of credits varies, depending on math and language placement)

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

Integrative Learning Courses (12 credits)

Prerequisites to these courses will be counted as free electives.

	CHM 125/125L General Chem II + Lab (second semester freshman year)	
	CHM 215/215L Organic Chem II + Lab (second semester sophomore year)	
	PHY 101/101L General Physics I + Lab (first semester junior year)	

Overlays (All students complete 4 overlays (EI, WI, DGNW, DIV) that may be combined with other GEP requirements, major courses, or electives.)

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

Major Requirements

Sem.		Course #
	BIO 102/102L Bio II: Genetics + Lab	
	BIO 201/201L Bio III: Organismic Biology + Lab	
	BIO 260/260L Anatomy & Physiology I + Lab	
	BIO 261/261L Anatomy & Physiology II + lab	
	MAT 128 Applied Statistics	

Complete 4 major electives. Select 1 from each category plus one from any category. Click on links for course options.

	Clinical and Translational Biology	
	Biological Foundations of Medicine	
	Context and Impacts of Biology	
	Any Category	

BIO 290 and 390 (required non-credit seminar)

A non-credit BIO seminar is required each semester for Sophomores, Juniors and Seniors.

* BIO 290 is taken in the fall of sophomore year.

* BIO 390 is taken both semesters junior & senior year

Electives (Minimum of 18 elective credits are required for graduation.)

	Free Elective	CHM 120/120L General Chem I + Lab
	Free Elective	CHM 210/210L Organic Chem I + Lab
	Free Elective	PHY 102/102L General Physics II + Lab (optional)
	Free Elective	MAT 120 Pre-Calculus (if needed)
	Free Elective	
	Free Elective	
	Free Elective	

***See reverse side for a typical 4-year plan and additional notes on Biology requirements**

March 2023

First Year

Fall	Cred.		Spring	Cred.	
BIO 101, 101L Cells (or Phage Safari I) (GEP)	4	☐	BIO 102/102L Genetics (or Phage Safari II)	4	☐
CHM 120, 120L Gen Chem I	4	☐	CHM 125/125L Gen Chem II (ILC #1)	4	☐
MAT 155 or MAT 161 (GEP Math Beauty)	3 or 4	☐	Non-Native Language II (GEP)	3 or 4	☐
Non-Native Language I (GEP)	3 or 4	☐	ENG 102 Text & Contexts (GEP)	3	☐
ENG 101 Craft of Language (GEP)	3	☐	FYS (GEP) (if no Phage Safari)	3	☐
Total Semester Credits	17-19			17-18	

Sophomore Year

Fall	Cred.		Spring	Cred.	
BIO 201/201L Organismic Bio	4	☐	Clinical and Translational Elective	3	☐
CHM 210/210L Org. Chem I	4	☐	CHM 215/215L Org. Chem II (ILC #2)	4	☐
MAT 128 Applied Statistics	3	☐	Social Science (GEP)	3	☐
PHL 154 Moral Foundations (GEP)	3	☐	Theology (THE 153, 154, or 155) (GEP)	3	☐
BIO Seminar 290	0	☐	Free Elective	3	☐
INT 151 Inequality in American Society	1	☐	BIO Seminar 390 (0 credit)	0	☐
Total Semester Credits	15			16	

Junior Year

Fall	Cred.		Spring	Cred.	
BIO 260 Anatomy & Physiology I	4	☐	BIO 261 Anatomy & Physiology II	4	☐
PHY 101/101L Gen Physics I (ILC #3)	4	☐	Biological Foundations of Med.	3 or 4	☐
PHL Anthropology (GEP)	3	☐	Free Elective	3 or 4	☐
Free Elective	3	☐	Religious Difference (GEP)	3	☐
HIS 154 Forging the Modern World (GEP)	3	☐	Free Elective/GEP Overlay	3 or 4	☐
BIO Seminar 390 (0 credit)	0	☐	BIO Seminar 390 (0 credit)	0	☐
Total Semester Credits	17			16-19	

Senior Year

Fall	Cred.		Spring	Cred.	
Context and Impacts of Biology Elective	3 or 4	☐	BMS Major Elective (any category)	3 or 4	☐
Faith & Reason (GEP)	3	☐	ART/LIT (GEP)	3	☐
Free Elective	3	☐	Free Elective/GEP Overlay	3	☐
Free Elective/GEP Overlay	3 or 4	☐	Free Elective	3	☐
Free Elective/GEP Overlay	3 or 4	☐	Free Elective (optional)	3 or 4	☐
BIO Seminar 390 (0 credit)	0	☐	BIO Seminar 390 (0 credit)	0	☐
Total Semester Credits	15 - 18			12-16	

Biomedical Sciences Major - Typical Course Sequence

Above is listed the typical curriculum for a Biomedical Sciences major (GEP). This schedule presumes that the student enters as a first-year student, without advanced placement in mathematics, English, etc. Students interested in declaring a major in Biomedical Sciences or changing their major to Biomedical Sciences from a different major should consult with Dr. Jonathan Fingerut (Chair) or Dr. Shaan Bhatt (Advising Coordinator) in the Department of Biology.

1. MAT 155, MAT 161 or higher level calculus is required. MAT 120 (Precalculus) satisfies an elective requirement.
2. A first year seminar is any course numbered 150 (e.g., ENG 150, ASC 150, etc). For students who are accepted into the Phage lab (BIO 151L), they may use this course to meet the first year seminar requirement.
3. BIO 290 Seminar. In the fall semester, sophomores take the special Bio seminar, BIO 290. BIO 290 is a non-credit bearing course.
4. BIO 390 Seminar. In addition to the courses listed above, BIO seminar, BIO 390, is required each semester for second-semester sophomores, juniors and seniors. BIO 390 is a non-credit bearing course.
5. 18 credits of free electives are required. CHM 120/120L General Chemistry I and CHM 210/210L Organic chemistry I are counted as free electives and fulfill part of the 18-credit free elective requirement.

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