

Saint Joseph's University

BA Biology - Secondary Education Major Curriculum Requirements (*Updated February 2023*)

Name _____

ID# _____

General Education Program (GEP)

Signature Core (19 credits)

1. EDU 150: Schools in Society (First Year Seminar)
2. PHL 154 Moral Foundations
3. Theology Signature Core (THE 153, THE 154, or THE 155 will fulfill the req.)
4. ENG 102 Texts and Contexts (pre-req: ENG 101)
5. HIS 154 Forging the Modern World
6. Faith and Reason Course (pre-reqs: THE 154 and PHL 154)
INT 151 Inequality in American Society
(Required for students entering Fall 2023 and later)

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

7. ENG 101 Craft of Language
8. Art, Music/Theatre/Film, or Lit
9. Math (Beauty) (MAT 155, MAT 161, or higher level calculus)
10. EDU 157: Adolescent Development (Social/Behavioral Science)
11. BIO 101 & 101L Bio: I Cells + Lab
12. Non-Native Language I
13. Non-Native Language II
14. Philosophical Anthropology (pre-req: PHL 154)
15. Religious Difference(THE or REL)

Integrative Learning Courses (9 credits)

16. SPE 160 Intro to Special Education w/field (pre-req: PHL 154)
17. SPE 205 Inclusive classrooms w/ Field
18. MAT 128 Applied Statistics

Overlays- All Students complete 3 overlays (EI, WI, DGNW) that may be combined with other GEP, major, or elective courses. Class of 2025 forward must also complete the additional Diversity Overlay.

Writing-Intensive (pre-req: ENG 101)	
Ethics-Intensive (pre-req: PHL 154)	
SPE 160: Intro to Special Education	
Diversity/Globalization/Non-Western)	
EDU 150 or EDU 160 Schools in Society	
Diversity (class of 2025 forward only) EDU 246 w/field fulfills this overlay	

Major Requirements

19. BIO 102 & 102L Bio II: Genetics + Lab
20. BIO 201 & 201L Bio III: Organismic Biology + Lab
21. Group 1: BIO 400, 406, BIO 415, or BIO 417
22. Group 2: BIO 416, BIO 419, 422, or 372
23. Group 3: BIO 401, 409 423, or 429
24. Group 4: BIO 220, 336, 413 or 414
25. CHM 120 & 120L General Chemistry I + Lab
26. CHM 125 & 125L General Chemistry II + Lab
27. CHM 210 & 210L Organic Chemistry I + Lab
28. PHY 101 & 101L General Physics I + Lab
29. PHY 102 & 102L General Physics II + Lab
30. ENV 106 & 106L Exploring the Earth + Lab

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 in soph spring & both semesters junior & senior year

Education Major Requirements.

- (1.) EDU 150 Schools in Society w/field
31. EDU 157: Adolescent Development w/field
32. EDU 230 Assessment & Eval: Grades 7-12
33. EDU 246: Language and Culture w/field
34. EDU 247: Literacy in the Content Areas
- (16.) SPE 160: Intro to Special Education w/field
- (17.) SPE 205 Inclusive Classrooms w/ Field
35. EDU 418: Instructional Techniques for Science
- 36.- 39. EDU 491: Student Teaching 7-12 (12 credits/4 courses)

Electives

The number of Electives will vary. 120 credits are required for graduation. Complete enough electives fulfill this requirement. Because of the double major, there is no minimum elective credit requirement.

Free Elective _____

Overlays

Overlays may be combined with other GEP requirements, major courses, or electives. All Students must complete the Writing-Intensive, Ethics-Intensive, and Diversity/Globalization/Non-Western Overlays. Class of 2025 forward must also complete the additional Diversity Overlay. Except for the Writing-Intensive Overlay, all overlays are fulfilled by Education major requirements.

- Writing-Intensive (pre-req: ENG 101)
- Ethics-Intensive (pre-req: PHL 154) - SPE 160 Intro to Special Education w/field
- Diversity/Globalization/Non-Western - EDU 150 or EDU 160 Schools in Society w/field
- Diversity (Class of 2025 forward only) - EDU 246 Literacy, Language & Culture w/field

Major Requirements

Important Note: Students can only receive the BA in Biology if they also complete the Secondary Education major requirements. If they do not complete the secondary education major then they will have to fulfill the requirements for the BS in Biology to graduate.

Biology Major Upper Division Courses - Students must complete one course from each group below

**BIO 101, 102, 201 and CHM 120, 125 are prerequisites for all Group 1 - 4 (see below) BIO courses*

Group 1:

- BIO 400 Developmental Genetics or
- BIO 406 Comparative Anatomy or
- BIO 415 Immunology
- BIO 417 Systemic Physiology

Group 2:

- BIO 416 Microbiology or
- BIO 419 Invertebrate Zoology or
- BIO 422 Applied & Environmental Microbiology or
- BIO 372 Aquatic Biology

Group 3:

- BIO 401 Animal Behavior
- BIO 409 Ecology
- BIO 423 Evolution
- BIO 429 Environmental Science

Group 4:

- BIO 220 Plant Diversity and Morphology
- BIO 336 Plant Therapeutics
- BIO 413 Plant Physiological Ecology
- BIO 414 Plant Systematics

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Typical Course Sequence

Important Note: Students can only receive the BA in Biology if they also complete the Secondary Education major. If they do not complete the secondary education major then they will have to fulfill the requirements for the BS in Biology to graduate.

	Fall	Spring
Freshman Year	BIO 101/101L CHM 120/120L EDU 150 w/field (First Year Seminar) Non-Native Language I ENG 101	BIO102/102L CHM 125/125L EDU 246 w/field Non-Native Language II MAT 155 or MAT 161
Sophomore Year	BIO 201/201L CHM 210/210L ENG 102 MAT 128 SPE 160 w/field BIO 290*	BIO 4xx/4xxL GEP Art/Literature Theology Signature Core (THE 153, 154, or 155) PHL 154 SPE 205 w/field BIO 390*
Junior Year	BIO 4xx/4xxL PHY 101/101L EDU 157 w/field HIS 154 GEP Religious Difference BIO 390*	BIO 4xx/4xxL PHY 102/102L EDU 247 w/field EDU 230 Assessment & Eval: Grades 7-12 GEP Phil Anthropol. BIO 390*
Senior Year	BIO 4xx/4xxL ENV 106 GEP Faith and Reason EDU 418 w/field Elective	EDU 491 Student Teaching

***BIO 290 (sophomore year) and BIO 390 Seminar.** In addition to the courses listed above, this BIO seminar is required each semester for Sophomores and Juniors. **This is a non-credit bearing course.**