University of Saint Joseph

Biology

FALL

1st Semester: _____	17
BIOL 114 General Biology I	4
CHEM 175 Fundamental Chemical Principles I	4
INTD 100 First Year Seminar I	3
ENGL 104 or ENGL 110	3
CORE	3

SPRING

2nd Semester: _____	14
BIOL 117 General Biology II	4
CHEM 176 Fundamental Chemical Principles II	4
BIOL 232 Science Communication	2
INTD 116 First Year Seminar II	1
CORE	3

FALL

3rd Semester: _____	15
BIOL 237 Principles of Environmental Science	4
CHEM 200+ level Advanced Chemistry 1	4
MATH 1XX Math 1	4
CORE	3

SPRING

4th Semester: _____	15
BIOL 250 Introduction to Biological Research	1
CHEM 200+ level Advanced Chemistry 2	4
MATH 1XX Math 2	4
CORE	3
CORE	3

FALL

5th Semester: _____	17
BIOL 3XX BIOL Elective 1 (300+ level)	4
Physical Science 1	4
INTD 301 Mercy Integrative Seminar	3
CORE	3
CORE	3

SPRING

6th Semester: _____	14
BIOL 3XX BIOL Elective 2 (300+ level)	4
Physical Science 2	4
CORE	3
CORE	3

FALL

7th Semester: _____	13
BIOL 4XX Biology Capstone	4
BIOL 485 Internship, ***or*** BIO 495 Advanced Independent Study, ***or*** BIO 497 Advanced Independent Research (can also be taken earlier in this plan of study ***or*** in the Spring semester of SENIOR year as needed)	2
BIOL 499 Integration Seminar	1
CORE/Elective	3
CORE/Elective	3

SPRING

8th Semester: _____	15
CORE/Elective	3
CORE/Elective	3
CORE/Elective	3
CORE/Elective	3
CORE/Elective	3

Undergraduate certificate options (see next page for courses):

- **Environmental Science**
- **Data Analytics**

This is an unofficial worksheet and is subject to change. The responsibility to register for the necessary courses in the proper sequence to meet the academic program requirements rests with the student. Please consult your academic advisor or Department/Major advisor every semester (and the USJ catalog) for the most up-to-date degree program requirements.

Environmental Science Certificate (12 credits):

- BIOL100 – Exploration of Careers in the Environment (1 credit)
- BIOL237 – Principles of Environmental Science (4 credits)
- BIOL239 – Environmental Science Seminar (3 credits)
- BIOL262 – Aquatic Science OR BIOL263 – Earth Science OR BIOL303 – Environmental Health (4 credits)

Data Analytics Certificate (12 credits):

- MATH 110 – Elementary Statistics (3 credits)
- COMP 210 – Data Base Design and Development (3 credits)
- COMP 250 – Introduction to Data Mining (3 credits)
- COMP 255 – Data Analysis with R (3 credits)