



UNIVERSITY OF SAINT JOSEPH

Biology

FALL	1 st Semester: _____	17	SPRING	2 nd Semester: _____	14
	BIOL 114 Introduction to Cellular Biology	4		BIOL 117 Introduction to Evolution and Kingdoms	4
	CHEM 175 Fundamental Chemical Principles I	4		BIOL 232 Scientific Writing	2
	INTD 100 First Year Seminar I	3		CHEM 176 Fundamental Chemical Principles II	4
	ENGL 104 or ENGL 110	3		INTD 100 First Year Seminar II	1
	CORE	3		CORE	3
FALL	3 rd Semester: _____	15	SPRING	4 th Semester: _____	15
	BIOL 237 Principles of Environmental Science	4		BIOL 250 Introduction to Biological Research	1
	CHEM 200+ level Advanced Chemistry	4		CHEM 200+ level Advanced Chemistry	4
	MATH 1XX Math	4		MATH 1XX Math	4
	CORE	3		CORE	3
				CORE	3
FALL	5 th Semester: _____	17	SPRING	6 th Semester: _____	14
	BIOL 3XX BIOL Elective (300+ level)	4		BIOL 3XX BIOL Elective (300+ level)	4
	Physical Science	4		Physical Science	4
	INTD 301 Mercy Integrative Seminar	3		CORE	3
	CORE	3		CORE	3
	CORE	3			
FALL	7 th Semester: _____	13	SPRING	8 th Semester: _____	15
	BIOL Biology Capstone: BIOL 452 or 453 or 490	4		CORE/Elective	3
	BIOL 485 Internship, <i>or</i>			CORE/Elective	3
	BIO 495 Advanced Independent Study, <i>or</i>			CORE/Elective	3
	BIO 497 Advanced Independent Research	2		CORE/Elective	3
	(can also be taken earlier in this plan of study <i>or</i> in the Spring semester of SENIOR year as needed)			CORE/Elective	3
	BIOL 499 Integration Seminar	1		CORE/Elective	3
CORE/Elective	3				
	CORE/Elective	3			

Specialized Pathways (see reverse for recommended courses)

- ◆ Environmental Sciences (Research, Ph.D., M.S. Programs)
- ◆ Cell/Molecular (Research, Ph.D., M.S. Programs)
- ◆ Health/Medical (PA, Medical, Dental, Pharmacy, Veterinary, etc.)

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.

Recommended courses for pathways

Environmental Sciences (Research, Ph.D., M.S. Programs)

BIOL 3XX BIOL Elective options:

- BIOL 301 - Microbiology
- BIOL 303 - Environmental Health

CHEM 200+ level options (choose 2):

- CHEM 200 - Organic Chemistry I
- CHEM 300 - Analytical Instrumentation (or Environmental Chemistry through the Consortium)
- CHEM 310 - Quantitative Analysis

MATH 1XX options:

- MATH 110 - Elementary Statistics
- MATH 160 - Pre-calculus **or** MATH 230 - Geometry (*Pre-Req: MATH 165 or MATH 170*)

Physical Science options:

- BIOL 145 - Aquatic Science
- BIOL 146 - Earth Science

Cell/Molecular (Research, Ph.D., M.S. Programs)

BIOL 3XX BIOL Elective options:

- BIOL 325 - Genetics
- BIOL 350 - Advanced Cell Biology

CHEM 200+ level options:

- CHEM 200 - Organic Chemistry I
- CHEM 210 - Organic Chemistry II

MATH 1XX options:

- MATH 110 - Elementary Statistics
- MATH 170 - Calculus I (*Pre-Req: MATH 160*) (*MATH 170 needed before taking PHYS 130 & 140*)

Physical Science options:

- PHYS 130 - Introductory Physics I (*Pre-Req: MATH170*)
- PHYS 140 - Introductory Physics II (*Pre-Req: MATH170*)

Additional recommended electives:

- BIOL 125 - Bioinformatics
- CHEM 426 - Biochemistry I

Health/Medical (PA, Medical, Dental, Pharmacy, Veterinary, etc.)

BIOL 3XX BIOL Elective options:

- BIOL 325 - Genetics
- BIOL 301 - Microbiology

CHEM 200+ level options:

- CHEM 200 - Organic Chemistry I
- CHEM 210 - Organic Chemistry II

MATH 1XX options:

- MATH 110 - Elementary Statistics
- MATH 170 - Calculus I (*Pre-Req: MATH 160*) (*MATH 170 needed before taking PHYS 130 & 140*)

Physical Science options:

- PHYS 130 - Introductory Physics I (*Pre-Req: MATH170*)
- PHYS 140 - Introductory Physics II (*Pre-Req: MATH170*)

Additional **required** electives:

- BIOL 241 - Anatomy and Physiology I
- BIOL 242 - Anatomy and Physiology II

Additional recommended electives:

- BIOL 350 - Advanced Cell Biology (Pharmacy, Medical, Dental)
- CHEM 426 - Biochemistry I (Pharmacy, Medical, Dental)