



UNIVERSITY OF SAINT JOSEPH

Bioinformatics

FALL

1st Semester: _____

14

- BIOL 114 Introduction to Cellular Biology 4
- CHEM 175 Fundamental Chemical Principles I 4
- INTD 100 First Year Seminar I 3
- ENGL 104 or ENGL 110 3

SPRING

2nd Semester: _____

15

- BIOL 117 Introduction to Evolution and Kingdoms 4
- CHEM 176 Fundamental Chemical Principles II (CHEM 175) 4
- INTD 116 First Year Seminar II 1
- MATH 110 Statistics (Pre-Req for COMP 250) 3
- CORE / Literature 3

FALL

3rd Semester: _____

14

- COMP 110 Computer Programming I 4
- MATH 170 Calculus I (Pre-Req: MATH 160) 4
- BIOL 125 Introduction to Bioinformatics 3
- BIOL 325 Genetics (Pre-Req: BIOL 114) 4

SPRING

4th Semester: _____

16

- COMP 150 Computer Programming II (Pre-Req: COMP 110) 3
- COMP 250 Introduction to Data Mining (Pre-Req: MATH 110) 3
- MATH 180 Calculus II (Pre-Req: MATH 170) 4
- RELS 125 Faith, Theology, Religiously Pluralistic World 3
- CORE / Philosophy 3

FALL

5th Semester: _____

16

- MATH Elective 3
- COMP Elective 3
- BIOL Elective 4
- CORE / RELS (200+ level) 3
- CORE / History 3

SPRING

6th Semester: _____

15

- MATH Elective 3
- COMP Elective 3
- CORE / Elective 3
- CORE / Social Science 3
- INTD 301 Mercy Integrative Seminar (Fall or Spring) 3

FALL

7th Semester: _____

15

- BIOL 475 - Genomes to Proteomes (Capstone) 3
- CORE / Fine Arts 3
- CORE / Language 3
- CORE / Elective 3
- CORE / Elective 3

SPRING

8th Semester: _____

14

- BIOL 476 Applied Bioinformatics (Pre-Req: BIOL 475) 3
- BIOL 485 - Internship or
BIOL 497 - Advanced Independent Research 2
- CORE / Elective / Language 3
- Free Elective 3
- Free Elective 3

Major Electives (Semester 5 & 6): **BIOLOGY** (select one): BIOL 301, BIOL 350, BIOL 464.

MATH (select two): MATH 120, MATH 165, MATH 251, MATH 252.

COMP (select two) COMP 220, COMP 255, COMP 330, COMP 410

NOTE: 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 advisor every semester, and the USJ catalog for the most up-to-date degree program requirements.