Bioinformatics

1st Semester: ____________
BIOL 114  Introduction to Cellular Biology  
CHEM 175  Fundamental Chemical Principles I  
INTD 100 First Year Seminar I  
ENGL 104  or  ENGL 110

2nd Semester: ____________
BIOL 117 Introduction to Evolution and Kingdoms  
CHEM 176  Fundamental Chemical Principles II  
INTD 116 First Year Seminar II  
MATH 110 Statistics  
CORE

3rd Semester: ____________
COMP 110 - Computer Programming I  
MATH 170 - Calculus I  
BIOL 125 - Introduction to Bioinformatics  
CORE / Social Science

4th Semester: ____________
COMP 150 - Computer Programming II  
COMP 250 - Introduction to Data Mining  
MATH 180 - Calculus II  
RELS 125 - Faith, Theology, Religiously Pluralistic World  
CORE / Philosophy

5th Semester: ____________
BIOL 325 - Genetics  
MATH Elective  
COMP Elective  
CORE / RELS (200+ level)  
CORE / History

6th Semester: ____________
BIOL Elective  
MATH Elective  
COMP Elective  
CORE / Elective  
INTD 301 Mercy Integrative Seminar (Fall or Spring)

7th Semester: ____________
BIOL 475 - Genomes to Proteomes  
BIOL 485 - Internship  or  BIOL 497 - Advanced Independent Research  
CORE / Elective / Fine Arts  
CORE / Elective  
CORE / Elective

8th Semester: ____________
BIOL 476 Applied Bioinformatics  
CORE / Elective / Language  
CORE / Elective  
CORE / Elective  
CORE / Elective

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.