### 1st Semester: ____________
- **FALL**
  - 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)
  - CORE (4)

### 2nd Semester: ____________
- **SPRING**
  - BIOL 117 Introduction to Evolution and Kingdoms (4)
  - BIOL 232 Scientific Writing (2)
  - CHEM 176 Fundamental Chemical Principles II (4)
  - INTD 100 First Year Seminar II (1)
  - CORE (3)

### 3rd Semester: ____________
- **FALL**
  - BIOL 237 Principles of Environmental Science (4)
  - CHEM 200+ level Advanced Chemistry (4)
  - MATH 1XX Math (3)
  - CORE (4)

### 4th Semester: ____________
- **SPRING**
  - BIOL 250 Introduction to Biological Research (1)
  - CHEM 200+ level Advanced Chemistry (4)
  - MATH 1XX Math (3)
  - CORE (3)

### 5th Semester: ____________
- **FALL**
  - BIOL 3XX BIOL Elective (300+ level) (4)
  - Physical Science (4)
  - INTD 301 Mercy Integrative Seminar (3)
  - CORE (3)

### 6th Semester: ____________
- **SPRING**
  - BIOL 3XX BIOL Elective (300+ level) (4)
  - Physical Science (4)
  - CORE (3)

### 7th Semester: ____________
- **FALL**
  - BIOL Biology Capstone: BIOL 452 or 453 or 490 (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)

### 8th Semester: ____________
- **SPRING**
  - 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
- 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
- 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: MATH 170)
- PHYS 140 - Introductory Physics II (Pre-Req: MATH 170)

**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
- 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: MATH 170)
- PHYS 140 - Introductory Physics II (Pre-Req: MATH 170)

**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)