

## Course Rotation Schedule, Environmental Science and Biology double major (Revised May 2024)

### **EVS Core Classes (required):**

|  |  |
|--|--|
| EVS 276 Environmental Science Seminar    | 1 evening section each spring                      |
| EVS 476 Issues in Environmental Science  | 1 section each spring                              |
| BIO 201 The Mol. and Cell. Basis of Life | multiple sections each fall, one section in spring |
| BIO 202 Org., Adaptation, and Diversity  | multiple sections each spring, one section in fall |
| CHEM 103 General Chemistry I             | several sections each fall                         |
| CHEM 104 General Chemistry II            | several sections each spring                       |
| ECON 101 Marketing Fundamentals          | multiple sections each fall and spring             |
| GEOL 101 Physical Geology                | one section each fall                              |
| PHIL 280B Environmental Ethics           | 3 x 1-credit (5-week) courses, fall odd years      |

### **EVS/Chemistry/Geology Electives (choose one):**

|                                     |                             |
|-------------------------------------|-----------------------------|
| CHEM 320 Quantitative Analysis      | 1 section each fall         |
| CHEM 420 Instrumental Analysis      | 1 section each spring       |
| BIO/EVS 324 Introduction to GIS     | 1 section spring even years |
| GEOL 210 Natural Disasters          | typically each year         |
| GEOL 309 Geomorphology              | irregular offering          |
| GEOL 403 Environmental Geochemistry | irregular offering          |

### **Biology Requirements:**

|                                   |                             |
|-----------------------------------|-----------------------------|
| CHEM 307/307L Organic Chemistry I | multiple sections each fall |
| BIO 301 Professional Preparation  | 1 section each semester     |
| BIO 303 Genetics                  | 1 section each semester     |
| BIO 310 Ecology                   | 1 section fall of odd years |
| BIO 495 Biology Senior Seminar    | 1 section each spring       |

### **Required Math Electives (choose two):**

schedule depends on courses elected (see MATH Course Offering Schedule)

### **Biology Area Requirements for EVS majors (choose at least one course from two of the following three areas):**

#### Cellular and Molecular:

|              |                   |                               |
|--------------|-------------------|-------------------------------|
| BIO 340      | Microbiology      | 2 sections each spring        |
| BIO 424      | Cell Biology      | 1 section fall of odd years   |
| BIO 428      | Molecular Biology | 1 section spring of odd years |
| BIO 429/429L | Biochemistry      | 1 section each fall           |

#### Biodiversity:

|         |                    |                                |
|---------|--------------------|--------------------------------|
| BIO 205 | General Zoology    | 1 section spring of even years |
| BIO 207 | General Botany     | 1 section fall of odd years    |
| BIO 215 | Field Zoology      | 1 section fall of odd years    |
| BIO 219 | Entomology         | 1 section fall of even years   |
| BIO 328 | Vertebrate Biology | 1 section spring of odd years  |

Physiology:

|  |                                |
|--|--------------------------------|
| BIO 325 Anatomy and Physiology I       | 2 sections each fall           |
| BIO 327 Plant Physiology               | 1 section spring of even years |
| BIO 330 Principles of Toxicology       | 1 section each fall            |
| BIO 425 Advanced Human Physiology      | 1 section each spring          |
| BIO 432 Pharmacology and Toxicology I  | 1 section each fall            |
| BIO 433 Pharmacology and Toxicology II | 1 section each spring          |

**Biology Electives:**

|   |                                    |
|---|------------------------------------|
| BIO/EVS 216 Data Analysis for Scientific Investigations | 1 section fall of even years       |
| BIO 234 Forensic Science                                | 1 section spring of odd years      |
| BIO 297 Intro to Lab and Field Research                 | arranged each semester             |
| BIO 2SGK The Human Environment                          | 1 day section fall of even years   |
| BIO 304 Journal Club                                    | 1 or 2 sections each fall          |
| BIO 305 Evolution                                       | 1 day section fall of even years   |
| BIO 326 Anatomy and Physiology II                       | 1 day section each spring          |
| BIO 331 Methods in Toxicology                           | 1 day section spring of even years |
| BIO 348 Emerging Pathogens                              | 1 day section fall of even years   |
| BIO 411 Limnology                                       | 1 section spring of odd years      |
| BIO 412 Marine Biology                                  | 1 section spring of even years     |
| BIO 480 Adv. Topics in Biology/Toxicology               | special offerings                  |
| BIO 493 Professional Internship                         | arranged each semester             |
| BIO 497 Directed Lab and Field Research                 | arranged each semester             |