

# BIOLOGY, BS - GRADES 7-12 LIFE SCIENCE EDUCATION CONCENTRATION

## Course Sequencing

### First Year

| Fall  |                        | Hours     |
|---|------------------------|-----------|
| BIOL 1406                                       | Biology I              | 4         |
| CHEM 1411                                       | General Chemistry I    | 4         |
| ENGL 1301                                       | Writing and Rhetoric I | 3         |
| UNIV 1101                                       | University Seminar I   | 1         |
| Social and Behavioral Sciences Core Requirement |                        | 3         |
| <b>Hours</b>                                    |                        | <b>15</b> |

### Spring

|              |                         |           |
|--------------|-------------------------|-----------|
| BIOL 1407    | Biology II              | 4         |
| CHEM 1412    | General Chemistry II    | 4         |
| ENGL 1302    | Writing and Rhetoric II | 3         |
| UNIV 1102    | University Seminar II   | 1         |
| MATH 2413    | Calculus I              | 4         |
| <b>Hours</b> |                         | <b>16</b> |

### Second Year

| Fall                                      |   |              |
|---|---|--------------|
| BIOL 2371<br>or BIOL 2416<br>or BIOL 2421 | Principles of Evolution<br>or Genetics<br>or Microbiology   | 3-4          |
| CHEM 3411                                 | Organic Chemistry I   | 4            |
| ENGL 2316<br>or ENGL 2332<br>or ENGL 2333 | Literature and Culture<br>or Literature of the Western World: From<br>the Classics to the Renaissance<br>or Literature of the Western World: From<br>the Enlightenment to the Present | 3            |
| EDUC 2211                                 | Foundations of Education  | 2            |
| Creative Arts Core Requirement            |   | 3            |
| American History Core Requirement         |   | 3            |
| <b>Hours</b>                              |   | <b>18-19</b> |

### Spring

|   |   |              |
|---|---|--------------|
| BIOL 2371<br>or BIOL 2416<br>or BIOL 2421 | Principles of Evolution<br>or Genetics<br>or Microbiology | 3-4          |
| BIOL 2401                                 | Anatomy and Physiology I                                  | 4            |
| BIOL 2371<br>or BIOL 2416<br>or BIOL 2421 | Principles of Evolution<br>or Genetics<br>or Microbiology | 3-4          |
| SPED 3310                                 | Individual Differences in Schools and<br>Communities      | 3            |
| American History Core Requirement         |   | 3            |
| <b>Hours</b>                              |   | <b>16-18</b> |

### Third Year

| Fall                          |                                    |   |
|-------------------------------|------------------------------------|---|
| ENGL 3301                     | Technical and Professional Writing | 3 |
| SMTE 4270                     | Science Education Topics I         | 2 |
| Organismal Animal Requirement |                                    | 4 |

|                              |  |   |
|------------------------------|--|---|
| Organismal Plant Requirement |  | 4 |
| READ 3353<br>or READ 3352    | Content Area Reading for Secondary<br>Students<br>or Content Area Reading for Elementary<br>Students | 3 |
| EDUC 3211                    | Culturally and Linguistically Responsive<br>Teaching   | 2 |

**Hours 18**

### Spring

|  |   |   |
|--|---|---|
| BIOL 3428                                  | Principles of Ecology                               | 4 |
| Chemistry of Life/Cell Biology Requirement |   | 4 |
| SMTE 4320                                  | Secondary Science Laboratory Techniques             | 3 |
| SMTE 4217                                  | Secondary Approaches to the Life Sciences           | 2 |
| BIEM 4357                                  | Methods of Teaching English as a Second<br>Language | 3 |

**Hours 16**

### Summer

|                         |                              |   |
|-------------------------|------------------------------|---|
| Upper Division Elective |                              | 3 |
| POLS 2305               | U.S. Government and Politics | 3 |
| POLS 2306               | State and Local Government   | 3 |

**Hours 9**

### Fourth Year

#### Fall

|           |   |   |
|-----------|---|---|
| EDUC 4305 | Seminar I   | 3 |
| IDET 3210 | Design and Development of Technology-<br>Integrated Learning Environments | 2 |

**Hours 5**

#### Spring

|           |                   |   |
|-----------|-------------------|---|
| EDUC 4694 | Clinical Teaching | 6 |
| EDUC 4395 | Seminar II        | 3 |

**Hours 9**

**Total Hours 122-125**