

Biology with Teaching Certification  
(Department of Biological Sciences)

Major Requirements

| <u>Major Courses</u>  | <u>Credits</u> | <u>Semester Completed</u> |
|---|----------------|---------------------------|
| <a href="#">[BIOL 150]</a> Biology I  | 4              | _____                     |
| <a href="#">[BIOL 151]</a> Biology II   | 2              | _____                     |
| <a href="#">[BIOL 152]</a> Biology III  | 4              | _____                     |
| <a href="#">[BIOL 261]</a> Ecology  | 3              | _____                     |
| <a href="#">[BIOL 281]</a> Genetics   | 4              | _____                     |
| <i>One of the following (Integrative Biology):</i>  | 3 or 4         | _____                     |
| <a href="#">[BIOL 313]</a> Developmental Biology (3)  |                |                           |
| <a href="#">[BIOL 385]</a> Physiology (4)   |                |                           |
| <a href="#">[BIOL 386]</a> Human Anatomy (4)  |                |                           |
| <a href="#">[BIOL 387]</a> Neuroscience (3)   |                |                           |
| <a href="#">[BIOL 418]</a> Introduction to Immunology (4)   |                |                           |
| <i>One of the following (Cellular Biology):</i>   | 4              | _____                     |
| <a href="#">[BIOL 381]</a> Microbiology (4)   |                |                           |
| <a href="#">[BIOL 382]</a> Microbiology for Health Professions (4)  |                |                           |
| <a href="#">[BIOL 412]</a> Cell Biology (4)   |                |                           |
| <a href="#">[BIOL 413]</a> Molecular Biology (4)  |                |                           |
| <a href="#">[CHEM 410]</a> , <a href="#">[CHEM 411]</a> Biochemistry I,<br>Biochemistry Laboratory (3, 1) |                |                           |
| <i>One of the following (Plant Biology):</i>  | 3 or 4         | _____                     |
| <a href="#">[BIOL 321]</a> Mycology (4)   |                |                           |
| <a href="#">[BIOL 332]</a> Plant Taxonomy (4)   |                |                           |
| <a href="#">[BIOL 334]</a> Plant Ecology (4)  |                |                           |
| <a href="#">[BIOL 335]</a> Plant Propagation (3)  |                |                           |
| One to three additional BIOL elective credits (total of 30 BIOL credits) 1 to 3                           |                | _____                     |
| <a href="#">[CHEM 105]</a> General Chemistry I  | 4              | _____                     |
| <a href="#">[CHEM 106]</a> General Chemistry II   | 4              | _____                     |
| <a href="#">[CHEM 204]</a> Introduction to Organic Chemistry  | 4              | _____                     |
| <a href="#">[BIOL 495]</a> Capstone: Natural Sciences   | 3              | _____                     |
| <i>One of the following:</i>  | 3 or 4         | _____                     |
| <a href="#">[MATH 108]</a> Intuitive Calculus with Applications (3)                                       |                |                           |
| <a href="#">[MATH 111]</a> Calculus I (4)   |                |                           |
| <i>One of the following:</i>  | 3              | _____                     |
| <a href="#">[PHIL 101]</a> Problems in Philosophy (3)   |                |                           |
| <a href="#">[PHIL 102]</a> History of Philosophy (3)  |                |                           |
| <a href="#">[PHYS 201]</a> Introductory Physics I   | 4              | _____                     |
| <a href="#">[STAT 269]</a> Introductory Statistics  | 3              | _____                     |
| 3 credits of ENGL xxx American or British Literature  | 3              | _____                     |
| <a href="#">[EDUC 120]</a> The Teaching Profession  | 1              | _____                     |
| <a href="#">[EDUC 201]</a> Education and American Society   | 3              | _____                     |
| <a href="#">[EDUC 203]</a> Educational Psychology   | 3              | _____                     |
| <a href="#">[EDUC 318]</a> Secondary Learning Environments  | 1              | _____                     |
| <a href="#">[EDUC 331]</a> Instructional Design & Assessment for Secondary Ed.3                           | 3              | _____                     |

**Major Requirements Continue on Page Two**  
General Education Requirements on Third Page

Biology with Teaching Certification  
(Department of Biological Sciences)

**Major requirements continued**

**Professional Semester:**

|   |   |       |
|---|---|-------|
| <a href="#">[BIOL 407]</a> Secondary Science Curriculum & Instruction | 2 | _____ |
| <a href="#">[PSYC 311]</a> Adolescent Development                     | 3 | _____ |
| <a href="#">[EDUC 420]</a> Professional Issues in Education           | 2 | _____ |
| <a href="#">[EDUC 435]</a> Student Teaching: Secondary                | 9 | _____ |

General Education Requirements on Third Page

Biology with Teaching Certification  
(Department of Biological Sciences)

General Education Requirements

| <u>Courses</u>   | <u>Credits</u> | <u>Semester Completed</u> |
|--|----------------|---------------------------|
| First Year Seminar   | 3              | _____                     |
| Oral Communications  | 3              | _____                     |
| Created and Called for Community   | 3              | _____                     |
| Mathematical Sciences ( <a href="#">[MATH 108]</a> or <a href="#">[MATH 111]</a> )   | 3 or 4         | <u>met by major</u>       |
| Laboratory Science ( <a href="#">[BIOL 150]</a> or <a href="#">[CHEM 105]</a> )      | 3 or 4         | <u>met by major</u>       |
| Science, Technology & the World  |                | <u>waived</u>             |
| <b>Two</b> of the following:   | 6              |                           |
| Social Science (3 credits – <a href="#">[EDUC 203]</a> )                             |                | <u>met by major</u>       |
| European History (3 credits)   |                | _____                     |
| United States History (3 credits)  |                | _____                     |
| Literature (American or British literature only)                                     | 3              | <u>met by major</u>       |
| Philosophy and Religion ( <a href="#">[PHIL 101]</a> or <a href="#">[PHIL 102]</a> ) | 3              | <u>met by major</u>       |
| Arts   | 3              | _____                     |
| Language/Cross Cultural  |                |                           |
| First Semester of Language   | 3              | _____                     |
| Second Semester of Language  | 3              | _____                     |
| Third Semester of Language or Cross Cultural   | 3              | _____                     |
| Non-Western Studies  | 2 or 3         | _____                     |
| Bible  | 3              | _____                     |
| Christian Beliefs  | 3              | _____                     |
| Health and Physical Fitness  |                |                           |
| Life Fitness   | 1              | _____                     |
| First Activity Course  | 1              | _____                     |
| Second Activity Course   | 1              | _____                     |
| <b>One</b> of the following:   | 3              |                           |
| Ethics (3 credits)   |                | _____                     |
| World Views (3 credits)  |                | _____                     |
| Pluralism in Contemporary Society (3 credits)  |                | _____                     |
| Writing Enriched Course  |                | _____                     |

SUMMARY OF DEGREE REQUIREMENTS:

|                    |                |
|--------------------|----------------|
| General Education  | 38             |
| Major Requirements | 88-89          |
| <b>Total</b>       | <b>126-127</b> |

Major Requirements on First and Second Pages