

Biology with Secondary Teaching Certification
(Department of Biological Sciences)

Major Requirements

| <u>Major Courses</u> | <u>Credits</u> | <u>Semester Completed</u> |
|----------------------------------------------------------------|----------------|---------------------------|
| [BIOL 160] Molecular and Cellular Biology | 4 | |
| [BIOL 161] Animal Form and Function | 3 | |
| [BIOL 162] Plant Form and Function | 3 | |
| [BIOL 260] Genetics and Development | 3 | |
| [BIOL 262] Ecology and Adaptation | 4 | |
| <i>One of the following (Integrative Biology):</i> | 3 or 4 | |
| [BIOL 313] Developmental Biology (3) | | |
| [BIOL 385] Physiology (4) | | |
| [BIOL 386] Human Anatomy (4) | | |
| [BIOL 387] Neuroscience (3) | | |
| [BIOL 418] Introduction to Immunology (4) | | |
| <i>One of the following (Cellular Biology):</i> | 4 | |
| [BIOL 382] Microbiology for Health Professions (4) | | |
| [BIOL 412] Cell Biology (4) | | |
| [BIOL 413] Molecular Biology (4) | | |
| [CHEM 410] Biochemistry I (4) | | |
| <i>One of the following (Plant Biology):</i> | 3 or 4 | |
| [BIOL 321] Mycology (4) | | |
| [BIOL 332] Plant Taxonomy (4) | | |
| [BIOL 334] Plant Ecology (4) | | |
| [BIOL 335] Plant Propagation (3) | | |
| [ESS 201] Earth and Space Science | 3 | |
| [CHEM 105] General Chemistry I | 4 | |
| [CHEM 106] General Chemistry II | 4 | |
| [CHEM 204] Introduction to Organic Chemistry | 4 | |
| <i>One of the following:</i> | 3 or 4 | |
| [MATH 108] Intuitive Calculus with Applications (3) | | |
| [MATH 111] Calculus I (4) | | |
| <i>One of the following:</i> | 3 | |
| [PHIL 101] Problems in Philosophy (3) | | |
| [PHIL 102] History of Philosophy (3) | | |
| [BIOL 495] Capstone: Natural Sciences | 3 | |
| [EDUC 201] Education and American Society | 3 | |
| [EDUC 203] Educational Psychology | 3 | |
| [EDUC 210] Sophomore Field Experience | | |
| [EDSP 207] Intro to Special Education | 3 | |
| [EDSP 307] Inclusion Practices | 3 | |
| [ENGL 330] Methodology in Teaching English as a Second Lang | 3 | |
| [EDUC 310] Junior Field Experience | | |
| [EDUC 331] Instructional Design & Assessment for Secondary Ed. | 3 | |
| ENGL xxx (ENGL 122 to ENGL 176) | 3 | |

Major requirements continue on reverse side
General Education requirements on third page

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Major requirements continued

| | | |
|-----------------------------------------------------------------------|---|--|
| [PHYS 201] Introductory Physics I | 4 | |
| [STAT 269] Introductory Statistics | 3 | |
| Professional Semester: | | |
| [BIOL 407] Secondary Science Curriculum & Instruction | 2 | |
| [EDUC 420] Professional Issues in Education | 2 | |
| [EDUC 435] Student Teaching: Secondary | 8 | |
| [PSYC 311] Adolescent Development | 3 | |

General Education requirements on third page

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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 ([MATH 108] or [MATH 111]) | 3 or 4 | <u>met by major</u> |
| Laboratory Science ([BIOL 160] , [BIOL 161] , [BIOL 162] , or [CHEM 105]) | 3 or 4 | <u>met by major</u> |
| Science, Technology & the World | 3 | <u>waived</u> |
| Two of the following: | 6 | |
| Social Science (3 credits – [EDUC 203]) | | <u>met by major</u> |
| European History (3 credits) | | |
| United States History (3 credits) | | |
| Literature (ENGL 122 to ENGL 176) | 3 | <u>met by major</u> |
| Philosophy and Religion ([PHIL 101] or [PHIL 102]) | 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 | <u>waived</u> |
| Bible | 3 | |
| Christian Beliefs ([THEO 223] required to waive Non-Western) | 3 | |
| Health and Physical Fitness | | |
| Introduction to Wellness | 2 | |
| Activity Course | 1 | |
| One of the following: ([EDUC 201]) | 3 | <u>waived</u> |
| Ethics (3 credits) | | |
| World Views (3 credits) | | |
| Pluralism in Contemporary Society (3 credits) | | |
| Writing Enriched Course | | |

SUMMARY OF DEGREE REQUIREMENTS:

| | |
|--------------------|----------------|
| General Education | 33 |
| Major Requirements | 94-97 |
| Total | 127-130 |

Major requirements on first and second pages

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