

**Biology with Secondary Teaching Certification**  
(Department of Biological Sciences)

Major Requirements

<u>Major Courses</u>	<u>Credits</u>	<u>Semester Completed</u>
<a href="#">[BIOL 160]</a> Molecular and Cellular Biology	4	
<a href="#">[BIOL 161]</a> Animal Form and Function	3	
<a href="#">[BIOL 162]</a> Plant Form and Function	3	
<a href="#">[BIOL 260]</a> Genetics and Development	3	
<a href="#">[BIOL 262]</a> Ecology and Adaptation	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 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> Biochemistry I (4)		
<i>One of the following (Plant Biology):</i>	3 or 4	
<a href="#">[BIOL 321]</a> Mycology (4)		
<a href="#">[BIOL 325]</a> Medicinal Botany (3)		
<a href="#">[BIOL 332]</a> Plant Taxonomy (4)		
<a href="#">[BIOL 334]</a> Plant Ecology (4)		
<a href="#">[BIOL 335]</a> Plant Propagation (3)		
<a href="#">[ESS 201]</a> Earth and Space Science	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	
<i>One of the following:</i>	3 - 7	
<a href="#">[MATH 108]</a> Intuitive Calculus with Applications (3)		
<a href="#">[MATH 109]</a> Calculus, Part I (4) & <a href="#">[MATH 110]</a> Calculus, Part II (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="#">[BIOL 495]</a> Capstone: Natural Sciences	3	
<a href="#">[EDSP 207]</a> Intro to Special Education	3	
<a href="#">[EDSP 307]</a> Inclusion Practices	3	
<a href="#">[EDUC 201]</a> Education and American Society	3	
<a href="#">[EDUC 203]</a> Educational Psychology	3	
<a href="#">[EDUC 210]/[TEP 210]</a> Sophomore Field Experience		
<a href="#">[EDUC 308]</a> Instruction and Assessment with English Language Learners	3	
<a href="#">[EDUC 331]</a> Instructional Design & Assessment for Secondary Ed.	3	
<a href="#">[TEP 310]</a> Junior Field Experience	0	
<a href="#">[TEP 410]</a> Secondary Pre-Student Teaching Experience	0	
ENGL xxx (ENGL 122 to ENGL 176)	3	

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Major requirements continued

<a href="#">[PHYS 201]</a> Introductory Physics I	4	
<a href="#">[STAT 269]</a> Introductory Statistics	3	
<b>Professional Semester:</b>		
<a href="#">[BIOL 407]</a> Secondary Science Curriculum & Instruction	2	
<a href="#">[EDUC 420]</a> Professional Issues in Education	2	
<a href="#">[TEP 435]</a> Student Teaching: Secondary	8	
<a href="#">[PSYC 311]</a> Adolescent Development	3	

General Education requirements on third page

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<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> , <a href="#">[MATH 109]</a> or <a href="#">[MATH 111]</a> )	3 or 4	<u>met by major</u>
Laboratory Science ( <a href="#">[BIOL 160]</a> , <a href="#">[BIOL 161]</a> , <a href="#">[BIOL 162]</a> , or <a href="#">[CHEM 105]</a> )	3 or 4	<u>met by major</u>
Science, Technology & the World	3	<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 (ENGL 122 to ENGL 176)	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	<u>waived</u>
Bible	3	
Christian Beliefs ( <a href="#">[THEO 223]</a> required to waive Non-Western)	3	
Health and Physical Fitness		
Introduction to Wellness	2	
Activity Course	1	
<b>One</b> of the following: ( <a href="#">[EDUC 201]</a> )	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	94-100
<b>Total</b>	<b>127-130</b>