

Biology (Secondary) and Environmental Education (K-12) with Dual Teaching Certification  
 (Dual certification program - only completed in conjunction with Biology Teaching Certification)  
 (Department of Biological Sciences)

<u>Major Courses</u>	<u>Major Requirements</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 332]</a> Plant Taxonomy (4)			
<a href="#">[BIOL 334]</a> Plant Ecology (4)			
<a href="#">[BIOL 335]</a> Plant Propagation (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	_____
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			_____

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

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**Major requirements continued**

<a href="#">[BIOL 271]</a> Ecological Field Techniques	2	_____
<a href="#">[BIOL 274]</a> Environmental Science	3	_____
<a href="#">[BIOL 315]</a> Environmental Ethics	3	_____
<a href="#">[BIOL 392]</a> Environmental Education Practicum	3	_____
<i>One of the following:</i>	4	_____
<a href="#">[BIOL 356]</a> Ornithology (4)		
<a href="#">[BIOL 358]</a> Herpetology (4)		
<a href="#">[ESS 201]</a> Earth and Space Science	3	_____
<b>Professional Semester:</b>		
<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

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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 ( <a href="#">[MATH 108]</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 (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	<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:	3	
Ethics (3 credits – <a href="#">[BIOL 315]</a> )		<u>met by major</u>
World Views (3 credits)		_____
Pluralism in Contemporary Society (3 credits)		_____
Writing Enriched Course		_____

SUMMARY OF DEGREE REQUIREMENTS:

General Education	33
Major Requirements	103-106
<b>Total</b>	<b>136-139</b>

Major requirements on previous two pages