

Biology and Environmental Education Dual Certification  
 (Dual certification program - only completed in conjunction with Biology 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, 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)		
<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 ENG 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 Second Page**  
 General Education Requirements on Third Page

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**Major Requirements Continued**

<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 436]</a> Dual Certification Internship	3	_____
<a href="#">[BIOL 271]</a> Ecological Field Techniques	3	_____
<a href="#">[BIOL 274]</a> Environmental Science	3	_____
<a href="#">[BIOL 392]</a> Environmental Education Practicum	3	_____
<i>One of the following:</i>	4	_____
<a href="#">[BIOL 345]</a> Entomology (4)		
<a href="#">[BIOL 356]</a> Ornithology (4)		
<a href="#">[BIOL 358]</a> Herpetology (4)		
<a href="#">[BIOL 315]</a> Environmental Ethics	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 ( <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	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	_____
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 – <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	35
Major Requirements	101-104
<b>Total</b>	<b>136-139</b>

Major Requirements on First and Second Pages