

Biology and Environmental Education Dual 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>
[BIOL 150] Biology I		4	_____
[BIOL 151] Biology II		2	_____
[BIOL 152] Biology III		4	_____
[BIOL 261] Ecology		3	_____
[BIOL 281] Genetics		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 381] Microbiology (4)			
[BIOL 382] Microbiology for Health Professions (4)			
[BIOL 412] Cell Biology (4)			
[BIOL 413] Molecular Biology (4)			
[CHEM 410] , [CHEM 411] Biochemistry I, Biochemistry Laboratory (3, 1)			
<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)			
[CHEM 105] General Chemistry I		4	_____
[CHEM 106] General Chemistry II		4	_____
[CHEM 204] Introduction to Organic Chemistry		4	_____
[BIOL 495] Capstone: Natural Sciences		3	_____
<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)			
[PHYS 201] Introductory Physics I		4	_____
[STAT 269] Introductory Statistics		3	_____
ENGL xxx American or British Literature		3	_____
[EDUC 120] The Teaching Profession		1	_____
[EDUC 201] Education and American Society		3	_____
[EDUC 203] Educational Psychology		3	_____
[EDUC 318] Secondary Learning Environments		1	_____
[EDUC 331] 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

[BIOL 271] Ecological Field Techniques	3	_____
[BIOL 274] Environmental Science	3	_____
[BIOL 315] Environmental Ethics	3	_____
<i>One of the following:</i>	4	_____
[BIOL 345] Entomology (4)		
[BIOL 356] Ornithology (4)		
[BIOL 358] Herpetology (4)		
[BIOL 392] Environmental Education Practicum	3	_____
[ESS 201] Earth and Space Science	3	_____
Professional Semester:		
[BIOL 407] Secondary Science Curriculum & Instruction	2	_____
[PSYC 311] Adolescent Development	3	_____
[EDUC 420] Professional Issues in Education	2	_____
[EDUC 435] 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 ([MATH 108] or [MATH 111])	3 or 4	<u>met by major</u>
Laboratory Science ([BIOL 150] 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 (American or British literature only)	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	3	_____
Health and Physical Fitness		
Introduction to Wellness	2	_____
Activity Course	1	_____
One of the following:	3	
Ethics (3 credits – [BIOL 315])		<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
Total	136-139

Major requirements on previous two pages

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