

**Proposed Curriculum in  
Ecological Restoration**

**Catalog 16-17**

**University Core Curriculum**

<b>Required Courses</b> .....	<b>(Th-Pr) Cr</b>
AGEC 105 Introduction to Agricultural Economics.....	(3-0) 3
BIOL 101 Botany.....	(3-3) 4
or	
BIOL 113 Essentials of Biology	
HORT 201 Horticultural Science and Practices and HORT 202 Hort. Sci. and Prac. Lab	
CHEM 101 and 111 Fundamentals of Chemistry I and Lab .....	(3-3) 4
RENr 215 Fundamentals of Ecology Lab .....	(0-3) 1
American History electives <sup>2</sup> .....	6
Communication electives <sup>2</sup> .....	6
Creative Arts elective <sup>2</sup> .....	3
Government/Political Science electives <sup>2,3</sup> .....	6
Language, Philosophy and Culture elective <sup>3</sup> .....	3
Mathematics electives (MATH prefix required) .....	6
	<b>42</b>

**Ecosystem Science and Management  
Core Courses**

ESSM 201 Exploring Ecosystem Science and Management .....	(1-0) 1
ESSM 301 Wildland Watershed Management .....	(2-2) 3
ESSM 306 Plant Functional Ecology and Adaptation.....	(3-0) 3
or	
ESSM 311 Biogeochemistry and Global Change .....	(3-0) 3
ESSM 313 Vegetation Sampling Methods and Designs of Ecosystems .....	(2-2) 3
ESSM 351 Geographic Information Systems and Resource Management.....	(2-2) 3
ESSM 481 Senior Seminar .....	(1-0) 1
RENr 205 Fundamentals of Ecology.....	(3-0) 3
SCSC 301 Soil Science .....	(3-2) 4
	<b>21</b>

**Ecological Restoration  
Core Courses**

ESSM 303 Agrostology .....	(1-6) 3
ESSM 304 Rangeland Plant Taxonomy .....	(2-6) 4
ESSM 318 Coupled Social and Ecological Systems .....	(3-0) 3
ESSM 320 Ecosystem Restoration and Management.....	(3-0) 3
ESSM 406 Natural Resources Policy .....	(3-0) 3
ESSM 416 Fire Ecology & Natural Resource Management.....	(3-0) 3

ESSM 420 Ecological Restoration of Wetland and Riparian Systems .....	(2-2)	3
ESSM 430 Advanced Restoration Ecology (W) .....	(1-4)	3
RENr 470 Environmental Impact Assessment .....	(3-0)	3
Emphasis Area electives <sup>1</sup> .....		21
Free electives .....		8
		<b>57</b>
<b>Total hours for the Ecological Restoration Degree</b>		<b>120</b>

NOTES:

<sup>1</sup> To be selected in consultation with an advisor.

<sup>2</sup> The graduation requirements include a requirement for 6 hours of international and cultural diversity courses. A course satisfying a Core category, a college/department requirement, or a free elective can be used to satisfy this requirement. See academic advisor.

<sup>3</sup> Credit by examination may be used to substitute for 3 hours of POLS 206 or POLS 207.