

California State University, Stanislaus  
**Biology: Ecology and Sustainability (MS)**  
 Curriculum Map

An Alignment of Program Core Courses, Graduate Learning Goals, Program Student Learning Objectives, Assessment Methods, Instructional Emphasis, and Primary Assessment Methods

**Emphasis of Goal/Objective**

Indicates the relative emphasis the student learning objective receives in the courses: H=High, M=Med, L=Low

**Primary Assessment Method**

Indicates the primary program-level assessment method (direct and indirect) used (e.g., rubric, embedded essay question).

		Ecology and Sustainability Graduate Courses								
		Core Courses								
		BIOL 5010/5013: Advanced Writing in Environmental Science	BIOL 5090: Ecosystem Services and Ecology	BIOL 5500/5502: Quantitative Ecology and Methodology	BIOL 5961: Graduate Seminar	PADM 5310: Environmental Planning, Policy, and Law	BIOL 5170/5172: Restoration Ecology	BIOL 5940: Internship	BIOL 5941: Directed Field Research	BIOL 5990: Thesis
Six Graduate Learning Goals	Program Learning Objectives									
<b>Ecological Conservation</b>										
<b>1. Advanced knowledge, skills, values</b>		M	M	H	H	H	H	L-H	L-H	H
	Demonstrate knowledge and understanding of the importance of ecosystem health	M/H	H	L	H	L	H	L-H	L-H	H
	Demonstrate knowledge and understanding of the importance of ecology and conservation with respect to ecosystem health	M/H	H	M	H	L	H	L-H	L-H	H
	Demonstrate knowledge and understanding of the multi-dimensionality of maintaining or restoring ecosystem health	M/H	H	M	H	H	H	L-H	L-H	M/H
	Demonstrate the skills to contribute solutions to these areas	M/H	M	H	L	H	H	L-H	L-H	H
<b>2. Creative, analytical, critical thinking</b>		H	M	H	H	H	M	L-H	L-H	H
<b>3. Individual and collaborative research in contributing scholarship</b>		H	L	L	L	L	L	L-H	L-H	H
<b>4. Global perspectives</b>		L	M	M	M/H	L/M	M	L-H	L-H	L

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Six Graduate Learning Goals	Program Learning Objectives										
5. New and various methods and technologies		M	L	H	H	L	H	L-H	L-H	M	
6. Oral and written communication, information from myriad sources		H	M/H	H	H	H	M/H	L-H	L-H	H	
	Program Specific Objectives										
	Be able to provide much-needed service to improve health and sustainability of ecosystems, resulting in more sustainable conditions in the Central Valley and/or other regions served by graduates of the program.	M/H	H	L	M	M	H	L-H	L-H	M/H	
	Be prepared to work with governmental agencies and private entities to bring about, restore, and maintain the biodiversity and environmental health that are the backbones of sustainability.	H	M/H	L	H	H	H	L-H	L-H	M/H	

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Six Graduate Learning Goals	Program Learning Objectives									
<b>Ecological Economics</b>										
1. Advanced knowledge, skills, values		M/H	M	H	H	H	H	L-H	L-H	H
	Demonstrate knowledge and understanding of the importance of ecosystem health	M/H	H	M	H	L	H	L-H	L-H	H
	Demonstrate a general knowledge of economics in order to work closely with economists to bring about changes that support ecosystem health.	L	M	L	L	M	L	L-H	L-H	H
	Demonstrate the skills to help effect changes in business practices that are sustainable with respect to earth's ecosystems and beneficial to the welfare of our society	L	L	M	L	M	L	L-H	L-H	M/H
2. Creative, analytical, critical thinking		H	M	H	H	H	M	L-H	L-H	H
3. Individual and collaborative research in contributing scholarship		H	L	L	L	L	L	L-H	L-H	H
4. Global perspectives		L	M	M	M/H	L/M	M	L-H	L-H	L

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5. New and various methods and technologies		M	L	H	H	L	H	L-H	L-H	M	
6. Oral and written communication, information from myriad sources		H	M/H	H	H	H	M/H	L-H	L-H	H	
	<b>Program Specific Objectives</b>										
	Be able to provide much-needed service to businesses and governmental agencies, resulting in more sustainable conditions in the Central Valley and/or other regions served by graduates of the program.	M/H	M/H	L	L	H	H	L-H	L-H	M/H	
	Be prepared to work with economists in various industries to bring about business/corporate/ governmental changes that are environmentally sustainable and at the same time financially profitable. (Chancellor's Office proposal)	M/H	M/H	L	L	M/H	M/H	L-H	L-H	H	