

# LAND REHABILITATION AND RESTORATION ECOLOGY MINOR

Offered at: San Luis Obispo Campus

Students completing the minor gain skills in recognizing, assessing, and treating disturbed lands for numerous purposes, including erosion and sediment control, water quality improvement, habitat restoration, biodiversity, and aesthetic enhancement. They develop proficiency in plant identification and selection, soil properties and processes, and ecological principles, and also learn to set criteria and judge the feasibility, prudence, efficiency, and effectiveness of restoration and rehabilitation efforts.

## Program Learning Objectives

1. Integrate and apply technical knowledge across disciplines of plant science, soil science, and ecology to restore natural systems.
2. Evaluate principles, practices, and techniques for designing, implementing, and evaluating land restoration and rehabilitation.
3. Apply systems thinking skills to address environmental degradation through land restoration and rehabilitation.
4. Communicate scientific, technical, and practical knowledge of land restoration and rehabilitation.

## Minor Requirements and Curriculum

The minor must be completed prior to, or at the same time as, the requirements for the bachelor's degree. A major and a minor may not be taken in the same degree program, and a minor is not required for a degree. Requirements for the minor include:

- At least half of the units must be from upper-division courses (3000-4000 level).
- At least half of the units must be taken at Cal Poly (in residence).
- No more than one-third of the units will be taken with credit-no credit grading (CR/NC), not counting courses with mandatory CR/NC. Departments may further limit CR/NC grading if desired.
- A minimum 2.0 GPA is required in all units counted for completion of the minor.

Code	Title	Units
<b>REQUIRED COURSES</b>		
Plant Area		
BOT 3313	Plant Taxonomy	4
Soils Area		
SS 3321	Soil Morphology	4
Select from the following:		3-4
SS/NR 4421	Wetlands	
SS 4431	Spatial Data Analysis and Environmental Mapping	
SS 4440	Forest and Range Soils	
Ecological Principles Area		
BIO 3327 or BOT 3326	Wildlife Ecology Plant Ecology	3-4
NR 3306 or NR 3304	Natural Resource Ecology and Habitat Management Agroecology	4
<b>Approved Electives</b>		
Select from the following:		3-4
BOT 4433	Field Botany: California Plant Diversity	
BRAE 3340	Irrigation Water Management	
CRP/NR 4404	Environmental Law	
CRP/NR 4408	Water Resource Law and Policy	
LA/NR 2218	Introduction to Geographic Information Systems (GIS)	
NR 3319 & NR 3320	Watershed Processes and Management and Watershed Processes and Management Laboratory	
NR 4445	Systems Thinking in Environmental Management	
NR 4463	Senior Project - Ecological Restoration	
PLSC 1124	Plant Propagation	
PLSC 3321	Weed Biology and Management	
PLSC 4441	Biological Control for Pest Management	

SS 2221

Soil Health and Plant Nutrition

**Total Units****21**