



Course Number	ENVS 2160 Principles of Agriculture Ecology
Course Name	
Credit Value (Breakdown of theory and lab credits)	3 Theory
Catalog Course Description	You will be introduced to ecology in the analysis of agriculture and sustainable alternatives, with an emphasis on the fundamentals of agriculture: soils, seeds, and water, and the geographical and cultural context of farming systems. You will study topics in traditional agriculture, farm development and design, and sustainable farm practices.
Course Student Learning Outcomes/Objectives /Competencies	<ol style="list-style-type: none"> 1. To gain understanding of principles of ecology and its application toward agricultural systems. 2. To understand different methods of food production and to be able to contrast systems from an ecological framework with regard to the management of seeds, soils, and water resources. 3. To understand the application of Permaculture principles to sustainable and traditional agriculture. 4. To understand impacts of agriculture on natural systems and the use of agriculture in restoration.
College-Wide Student Learning Outcomes measured (General education courses only)	
Program Student Learning Outcomes measured	<ol style="list-style-type: none"> 1. Understand the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems with specific emphasis placed on Northern New Mexico. 2. Apply systems theory, concepts, and methodologies to critically analyze and understand interactions on an ecological level.