



Course Number Course Name	ES 225 PRINCIPLES OF AGRICULTURE ECOLOGY
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.
Student Learning Outcomes/Objectives /Competencies of the Course	<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	<ol style="list-style-type: none"> 1. <i>Cultural Competence</i> <i>Cultural competence will be assessed by assignments designed to evaluate different cultures adaptations to their environment and resulting agricultural practices.</i>