



Course Number	ENVS 4410 Soil Testing and Interpretation
Course Name	
Credit Value (Breakdown of theory and lab credits)	3 Theory
Catalog Course Description	You will become acquainted with soil composition and classification; relationship of soil to plant growth and animal health; use of fertilizers, erosion and control. You will study the four general components of soil testing: a) soil sampling and handling, b) analytical methodology involved in nutrient extraction from the soil by various tests, c) interpretation of the analytical results, and d) recommendations for the correction of soil nutritional problems, including acidity, deficiencies, imbalances, and excess levels.
Course Student Learning Outcomes/Objectives /Competencies	<ol style="list-style-type: none"> 1. Understand the history of soil classification, methods and characterization techniques of soil, morphologic genetic horizons, diagnostic horizons, moisture regimes, temperature regimes, detailed discussion of Soil Taxonomy. 2. Morphologic descriptions, classification, and soil genesis discussions are enhanced by field-based activities and prepare students for mapping and map interpretation.
College-Wide Student Learning Outcomes measured (General education courses only)	
Program Student Learning Outcomes measured	<ol style="list-style-type: none"> 1. Apply systems theory, concepts, and methodologies to critically analyze and understand interactions on an ecological level.