

Course Outcome Guide (COG)

Course:	SOIL 210 Intro to Soil Science	Credits:	3	Instructor:	Jessalyn Bachler
Course Description:	Physical, chemical, and biological properties of soils as related to use, conservation, and plant growth.				
Concepts and Issues	Process Skills	Assessment Tasks	Intended Outcomes		
			Course	General Education or Program	Institutional
<ul style="list-style-type: none"> •Soil Functions •Soil Components •Parent Material •Soil Formation •Physical Properties •Chemical Properties •Soil Water •Soil Biology •Soil Taxonomy •Soil Survey •Soil Conservation 	<ul style="list-style-type: none"> •Uses and importance of soil •Soil texturing •Soil structure types •Understanding soil formation •Water movement in the soil •The importance of "living soil" •Understand the classification system of soil. •How to use a soil survey •Opportunities for soil conservation 	<ol style="list-style-type: none"> 1.) Complete textbook readings, questions, and problems demonstrating mastery of both concepts and process skills. 2.) Complete examinations demonstrating mastery of both concepts and process skills. 	<ol style="list-style-type: none"> 1.) Demonstrate different techniques in determining soil texture. 2.) Differentiate how soil is used by all aspects of agriculture. 3.) Generate basic soil health data. 	<ol style="list-style-type: none"> 1.) Lifelong learning (or realization that learning is a continuous process of evaluation and reevaluation). 2.) Critical thinking (or the ability to identify and define criteria understand biases, and construct objective judgments). 3.) Analogical thinking (or using former knowledge and experience to help comprehend and explain new situations). 	<ol style="list-style-type: none"> 1.) Students will demonstrate effective communication skills. 2.) Students will use reasoning skills to analyze and solve problems. 3.) Students will demonstrate knowledge of diverse cultures and value systems.