

Soils Assessment Plan Rev. 4/4/2018

Soils	14-15	15-16	16-17	17-18	18-19	19-20
<b>SOILB1 - Introduction to Soil Science</b>						
• Upon completion of the course, the student will be able to list all major living and non-living components of soils and to identify basic soil particle class sizes and organisms using laboratory samples.	X					X
• Upon completion the student will be able to: Name and describe the major soil formation processes and give examples of those processes in the Bakersfield area.	X					X
• Upon completion the student will be able to: Name and describe the development process of soil horizons.	X					X
• Upon completion the student will be able to: Name and describe the various components of soil water potential, do simple calculations regarding soil water potential, measure soil water potential using common instrumentation, and make recommendations concerning irrigation frequency and amount for pa	X					X
• Upon completion the student will be able to: Name and recommend various types of irrigation systems depending upon crop, soil, climate, topography, and economics.	X					X
• Upon completion the student will be able to: Analyze soils for basic macronutrients or amendments needed for crop growth and make recommendations regarding fertilizer or reclamation regimens.	X					X
• Upon completion the student will be able to: Use hand-held GPS units to map locations of soil samples and to make GIS maps of surface soil types	X					X
• Upon completion the student will be able to: Plan and implement a simple soil field experiment using standard scientific procedures, collect data, analyze the data, and write a summary of the experiment using the standard scientific format.	X					X