Course Number Course Name	**ES 316 FIRE MANAGEMENT AND RESTORATION**
Credit Value (Breakdown of theory and lab credits)	3 Theory
Catalog Course Description	You will study the concepts fire management, which involves predicting fire behavior and effects, as well as making decisions appropriate to natural resource management objectives. You will also study fire management options, which vary greatly, and may include fuels management and education, fire suppression, wildland fire use, and igniting and managing a prescribed fire, and post-fire rehabilitation. Prerequisites: ES 112/L, and BIOL 203/L. (3, 3T+0L)
Student Learning Outcomes/Objectives /Competencies of the Course	1. Demonstrate an understanding of the history of wildland fire in America. 2. Discuss the role of prescribed fire as a land and wildlife management tool. 3. Demonstrate an understanding of fire ecology, measure fuel loads and understand how fuels affect fire behavior. 4. Locate and interpret information on the effects of fire on flora and fauna, current and historical fire weather data, and use SIMtable software to predict fire behavior and smoke emissions. 5. Demonstrate an understanding of the various techniques for ignition and control of a prescribed fire. 6. Prepare a prescribed burn plan to meet specific management objectives.
College-Wide Student Learning Outcomes	*1. Communication* *Communication will be assessed by presentations related to a burn plan.*