NORTHERN NEW MEXICO COLLEGE

Course Number Course Name	ENVS 3336 Environmental Sampling and Instrumentation
Credit Value (Breakdown of theory and lab credits)	3 Theory
Catalog Course Description	You will study the fundamental standards of environmental monitoring, such as the application and use of site assessment, monitoring wells, permeability testing, soil vapor extraction and air sparging pilot installations, and employ principles such as obtaining a representative sample; sample containment; design, installation site assessment, monitoring wells, permeability testing, soil vapor extraction and air sparging pilot installations. You will employ principles such as: obtaining a representative sample; sample containment; design, installation, testing and monitoring of wells; design, establish, and collect data from permeability testing, groundwater contour maps, sol vapor extraction, and air sampling systems, and pilot tests.
Course Student Learning Outcomes/Objectives /Competencies	1. Understand the methods of assessment of environmental hazards, whether those environments are outdoors, indoors, at work, or at home. 2. Knowledge Standard sampling and analytical techniques have been developed to assess contaminant levels for a variety of media, including water, air, and living systems. 3. Explore new analytical methods and compare to existing methods in quantifying contaminant levels. 4. Introduction to multi-media sampling techniques and analytical methods for evaluation outdoor/indoor air, soil/surfaces, and water.
College-Wide Student Learning Outcomes measured (General education courses only)	
Program Student Learning Outcomes measured	1. Effectively communicate complex concepts, theoretical applications, and analysis of research utilizing different media, to a wide variety of audiences.