

NORTHERN NEW MEXICO COLLEGE



Course Number Course Name	GEOL 2110L, Historical Geology Laboratory
Credit Value (Breakdown of theory and lab credits)	1 Lab
Catalog Course Description	Historical Geology Laboratory is the laboratory component of Historical Geology. This course applies geologic principles and techniques to reconstruct the history of Earth. Students will explore key concepts of geologic time and stratigraphy, identify fossils and use fossils to make stratigraphic correlations. Students will employ actualism to determine past depositional environments.
Student Learning Outcomes/Objectives /Competencies of the Course	<p>Student Learning Outcomes:</p> <ol style="list-style-type: none"> 1. Explain or discuss geologic time and how the geologic time scale was developed. 2. Recognize or explain how geologic time is measured. 3. Describe and use the basic principles of stratigraphy and explain how stratigraphy can be used to interpret sedimentary environments. 4. Describe and use the basics of paleontology and how fossils can be used to interpret ancient sedimentary environments. 5. Identify fossils in hand samples and explain how organisms are preserved in the fossil record. 6. Identify, explain, or interpret geologic structures on geologic maps. 7. Reconstruct the history of geologic events using geologic maps and cross-sections. 8. Construct cross-sections, fence diagrams, and isopach maps from stratigraphic sections and thickness data.
College-Wide Student Learning Outcomes	<p>GEOL 2110L learning objectives align with the following NNMC College Wide Goal:</p> <p><i>Critical thought: Students are required to analyze and synthesize information and draw reasoned conclusions.</i></p>