



<b>Course Number</b> <b>Course Name</b>	GEOL 1110L, Physical Geology Lab
<b>Credit Value</b> <b>(Breakdown of theory and lab credits)</b>	1 Lab
<b>Catalog Course Description</b>	Physical Geology Lab is the laboratory component of Physical Geology. Students will learn to identify rocks and minerals in hand samples, work with topographic maps, geologic maps, and geologic cross-sections, and apply stratigraphic principles to explore geologic time.
<b>Student Learning Outcomes/Objectives /Competencies of the Course</b>	<p><b>Student Learning Outcomes:</b></p> <ol style="list-style-type: none"> <li>1. Use physical properties to identify mineral specimens.</li> <li>2. Describe, classify, and identify igneous, sedimentary, and metamorphic rocks and their textures.</li> <li>3. Utilize the principles of stratigraphy to provide an explanation of the geologic history portrayed in a photograph or cross-section.</li> <li>4. Explain how contour lines are used to represent topography, use map scales to measure distances on the ground, and construct topographic profiles.</li> <li>5. Identify landforms from images and topographic maps.</li> <li>6. Interpret geologic maps and construct geologic cross-sections.</li> <li>7. Acquire and communicate scientific data, ideas, and interpretations through written, oral, or visual means. Examples may include creating and describing graphs, maps and photos.</li> <li>8. Apply critical thinking skills such as inductive, deductive, and mathematical reasoning to solve geological problems.</li> </ol>
<b>College-Wide Student Learning Outcomes</b>	<p>GEOL 1110L 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>