



<b>Course Number Course Name</b>	GEOL 1110, Physical Geology
<b>Credit Value (Breakdown of theory and lab credits)</b>	3 Theory
<b>Catalog Course Description</b>	Physical Geology is an introduction to our dynamic Earth introducing students to the materials that make up Earth (rocks and minerals) and the processes that create and modify the features of our planet. The course will help students learn how mountains are formed, how volcanoes erupt, where earthquakes occur, and how water, wind, and ice can shape the landscape. Students will also develop a basic understanding of the ways humans have altered the planet including our impact on natural resources and global climate change.
<b>Student Learning Outcomes/Objectives /Competencies of the Course</b>	<p><b>Student Learning Outcomes:</b> At the end of this course the student will understand the:</p> <ol style="list-style-type: none"> <li>1. Recall, describe or explain geologic vocabulary.</li> <li>2. Identify or explain aspects of the geologic time scale and compare the uses and limitations of relative and absolute dating.</li> <li>3. Recognize or explain the evidence used to support the theory of plate tectonics. Describe or identify how plate tectonics is related to the structure and features of the Earth.</li> <li>4. Describe the formation of, and describe, compare, and classify minerals.</li> <li>5. Identify or describe the three main rock types, how each forms in the context of the rock cycle and what each indicates about its environment of formation.</li> <li>6. Recognize or explain the fundamentals of surface and groundwater hydrology and discuss the impact of human activities on water quality and quantity.</li> <li>7. Describe or discuss the processes that are responsible for specific geologic hazards (e.g., earthquakes, volcanic eruptions, mass movement, flooding, etc.).</li> <li>8. Recognize or describe the geologic processes involved in the formation and concentration of geologic resources.</li> </ol>
<b>College-Wide Student Learning Outcomes</b>	<p>GEOL 1110 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>