

General Course Information

Course Name:	
Department: Science	Grade Level(s): 11, 12
Duration/Credits: One Semester/0.5 credits	Prerequisites: Successful completion of a high school level science course
BOE Approval Date:December 2022	Course Code: H3150
Course Description:	
<p>Geology will present the learner with a hands-on experience of the importance of rocks, minerals, plate tectonics, and the processes, which form and shape the land. Students develop skills for the practical application of geology into everyday life. Major themes consist of studies of minerals, rocks, volcanoes, earthquakes, crustal movement, and mountain building, continental movement, karst, maps, and topography.</p>	
Course Rationale:	
<p>In a world filled with the products of scientific inquiry, scientific literacy is a necessity for everyone in order to use scientific information to make wise choices. Today, the job market demands advanced skills, requiring people to be able to learn, reason, think creatively, make decisions, and solve problems. An understanding of science and the processes of science contribute in an essential way to these skills.</p>	
Course Objectives:	
<ol style="list-style-type: none">1. The student will use specimens of minerals and examine and identify different minerals and illustrate in writing the importance of minerals in their daily lives.2. The student will identify the different families of rocks, mineral content, formation, and distribution on the Earth.3. The student will illustrate and describe the foundation of Plate Tectonics and how they relate to changes on the Earth.4. The student will investigate earthquakes and volcanoes, and make the relationship between earthquakes and volcanoes and plate tectonics.5. The student will identify the parts of karst formations and how they impact human activities.6. The student will investigate the geologic time periods and interpret the common fossils' environments.	

7. The student will learn how to interpret topographic maps.
Standards Alignment:
List standard set(s) to which course has been aligned