Course Title: EARTH SCIENCE IB	**Course Description**
Course No. 2352 **Grade level**: 9-12 **Text and Resource Options:** *N/A*	**Course Value**: *One Semester **Credit Value**: 1 - 5
Course Content: Key Content Standards and Course Objectives 1. **Geology**: Evidence from rocks allows us to understand the evolution of life on Earth (7-4a-g), plate tectonics explains important features of the Earth's surface and major geologic events (6-1a-g), the properties of rock and minerals reflect the processes that formed them (4-4a-b), topography is reshaped by weathering of rock and soil and by the transportation and deposition of sediment (6-2a-d), Earth is made of materials that have distinct properties and provide resources for human activities (2-3a-e). 2. **Earth in the Solar System**: Earth-based and space-based astronomy reveals the structure, scale, and change over time of stars, galaxies and the universe (9/12-2a-b), astronomy and planetary exploration reveal the structure, scale, and change of the solar system over time (9/12-1-c-e), the solar system consists of planets and other bodies that orbit the sun in predictable paths. 3. **Energy in the Earth System**: Many phenomena on the Earth's surface are affected by the transfer of energy through radiation and convection currents (6-4a-e), heat moves in a predictable flow from warmer objects to cooler objects until all objects are at the same temperature (6-3a-d), energy from the sun heats the Earth unevenly, causing air movements resulting in changing weather patterns (5-4a-e). **<u>Investigation and Experimentation</u>** Students will ask meaningful questions and conduct careful investigations addressing the content of the above Earth Science standards.	This course will focus on the foundational standards from which the grades 9-12 Earth science standards are based. This course, along with Earth Science IIIA, can serve as one component of the Alternative Education's science credit requirement for graduation. Note that some exploratory activities are used, but lack of facilities that conform to state safety guidelines for laboratories precludes many laboratory activities. *Open entry/open exit
Methods of Study	**Evaluation of Performance Standards**
1. Students will complete all activities assigned. 2. Students will participate in discussion with other class members and/or teacher.	1. Students will complete all assignments with a minimum of 70% accuracy. 2. The supervising teacher will be satisfied with the quality of the student's work. 3. The student must receive a minimum score of 70% on a teacher assigned final evaluation.