

Course Title: HIGH SCHOOL INTEGRATED SCIENCE A	Course Description
<p>Course No. 5301 Grade level: 9-12</p> <p>Text and Resource Options:</p> <p>Physical and Earth Sciences: A. <i>Concepts and Challenges: Physical Science</i>; Globe Fearon B. <i>Concepts and challenges: Earth Science</i>; Globe Fearon C. <i>Conceptual Physical Science</i>; Addison, Wesley, Longman D. <i>Exploring Earth and Space</i>; Globe Fearon E. <i>Exploring Matter and Energy: Physical Science</i>; Globe Fearon F. <i>Glencoe Earth Science</i>; Glencoe-McGraw-Hill G. <i>Holt Science and Technology: Earth Science</i>; Holt, Rinehart H. <i>Modern Earth Science</i>; Holt, Rinehart, Winston I. <i>Physical Science</i>; Glencoe McGraw-Hill J. <i>Physical Science</i>; Holt, Rinehart, Winston K. <i>Science Explorer: Earth Science</i>; Prentice Hall L. <i>Science Interactions</i>; Glencoe McGraw-Hill M. <i>Science Insights: Exploring Matter and Energy</i>; Scott, Foresman, Addison, Wesley N. <i>Science Insights: Exploring Earth and Space</i>; Scott Foresman, Addison Wesley</p> <p>Life Science/Biology: A. <i>Life Science, Holt Science and Technology</i>; Holt Publishing B. <i>Concepts and Challenges: Life Science</i>; Globe Fearon C. <i>Glencoe Life Science</i>; Glencoe McGraw-Hill D. <i>Science Insights: Exploring Living Thing</i>; Scott Foresman Addison Wesley E. <i>Holt Biology: Visualizing Life</i>; Holt Publishing Co. F. <i>Biology</i>; Prentice Hall Publishing G. <i>Biology: The Dynamics of Life</i>; Glencoe McGraw-Hill Co.</p>	<p>Course Duration: *One Semester</p> <p>Credit Value: 1 - 5 credits</p> <p>Integrated Science A is the first part of a standards-based science curriculum that incorporates the science strands of: biology/life, physical, and Earth science. An integrated approach to the science strands will provide students with a broad-based understanding of the interrelationship of the strands. Students will study the science strands in conjunction with the investigation and experimentation standards. Students will develop a command for the academic language of science, as scientific vocabulary is important in building conceptual understanding.</p> <p>The course will focus on the grade 9-12 science standards, but teachers will backwards-map to foundational science standards, when necessary, to meet the needs of all students. The standards outlined in this course follow the <i>Sequenced Pattern of Instruction</i>.</p> <p>*Open entry/exit</p>
<p align="center">Course Content: Key Content Standards and Course Objectives</p>	
<ol style="list-style-type: none"> Cell Biology: Fundamental life processes of plants and animals depend on a variety of chemical reactions that are carried out in specialized areas of the organism's cells (9-12 Biology). Physiology: As a result of the coordinated structures and functions of organ systems, the internal environment of the human body remains relatively stable despite changes in the outside environment. (9/12 9 a-e). Organisms combat disease (9/12 10 a-e). Human Evolution: The frequency of an allele in a gene pool of a population depends on many factors, and may be stable or unstable over time (9/12 7 a-d), Evolution is the result of genetic changes that occur in constantly changing environments (9/12 8a-e). Investigation and Experimentation: Students will ask meaningful questions and conduct careful investigations addressing the content of the above Integrated Science A standards. 	
<p align="center">Methods of Study</p>	<p align="center">Evaluation of Performance Standards</p>
<ol style="list-style-type: none"> Students will complete all activities assigned. Students will participate in discussion with other class members and/or teacher. 	<ol style="list-style-type: none"> Students will complete all assignments with a minimum of 70% accuracy. The supervising teacher will be satisfied with the quality of the student's work. The student must receive a minimum score of 70% on a teacher assigned final evaluation. Letter grade contracts are optional and require a higher level of performance.