



Course Syllabus

SY 2014-15

COURSE TITLE:	Physics
PREREQUISITE:	Algebra II
DESCRIPTION:	<p>In science, a special emphasis is placed on the research process in all grades. This includes making decisions about the generation and testing of ideas; prediction, measurement, data collection and representation; evaluation of sources of information; collaborative investigation; interpretation and communication of findings; evaluation and verification of findings and considerations relating to the social context of research.</p> <p>Considered to be the most fundamental of all the sciences, Physics seeks to understand and explain the behavior of matter and energy. Students will recognize that innumerable phenomena can be explained by a surprisingly small collection of related concepts. Students use algebra, statistics, and trigonometry to understand concepts. They engage in experimentation, apply scientific reasoning, and perform data analysis and interpretation. Laboratory work includes graphical analysis. This is a college preparatory Physics course.</p>
MAIN TOPICS:	<p>Mechanics</p> <p>Dynamics</p> <p>Momentum</p> <p>Work, Energy & Power</p> <p>Electrostatics</p> <p>Electric Circuits</p> <p>Electromagnetic Waves</p> <p>Sound and Waves</p> <p>Optics</p> <p>Fluids</p> <p>Modern Physics</p>
CREDIT INFO:	1 Credit. This course provides one of the credits required for the Standard or Advanced Studies Diploma.