

### **2000340 Advanced Placement Biology**

Grade 11-12

1 credit

The Advanced Placement Biology course is the equivalent of a two-semester college introductory biology course usually taken by biology majors during their first year. After showing proficiency on the AP examination, some college freshmen are permitted to take upper-level courses in biology or to register for courses for which biology is a prerequisite. Other students may have fulfilled a basic requirement for a laboratory-science course and will be able to take other courses to pursue their majors. The textbook used and lab experiences are college level. This course will require mandatory lab time outside of the class period.

### **2003370 Advanced Placement Chemistry**

Grades 11-12

1 credit

Prerequisite: Successful completion of Chemistry I Honors with a B or better and Algebra II Honors

Advanced Placement (AP) Chemistry is a course designed to be the equivalent of general chemistry that is usually taken during the first year of college. The course is suitable for students who display a high level of competency in honors chemistry and a strong desire to pursue a major in the sciences as a college student. Due to the intensive nature of the class, lab time outside of the normal class time will be required. **All students who enroll in this course are required to take the AP exam in May.**

### **2003420 Advanced Placement Physics B**

Grade 11-12

1 credit

Trigonometry or AP Calculus

Advanced Placement (AP) Physics B is a college level course that uses advanced algebra and trigonometry as the primary tools for problem solving. This course covers topics in mechanics, energy, waves, thermodynamics, electricity, magnetism, optics, quantum theory, and nuclear physics. Having an understanding of the basic principles and applying the principles in problem solving is the major goal of the AP Physics B course. **All Students who enroll in this course are required to take the AP exam in May.**

### **2001380 Advanced Placement**

## **Environmental Science**

Grade 11-12

1 credit

Prerequisite: See Honors Criteria

Advanced Placement (AP) Environmental Science will provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environments of problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. AP Environmental Science is an excellent option for any interested student who has completed two years of high school laboratory science - one year of life science and one year of physical science. Due to the qualitative analysis that is required in the course, students should also have taken at least one year of algebra. The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in Environmental Science. **All students who enroll in this course are required to take the AP exam in May.**