

## Advanced Placement Courses

Courses offered in Advanced Placement are:

**AP Calculus-** This course is intended for students who have a thorough knowledge of college preparatory mathematics, including Algebra, Geometry, Trigonometry and some Analytic Geometry. All of these topics are covered in the Algebra I through Pre-Calculus sequence of courses, which are the prerequisites. This is a 45-minute year-long accelerated course in Calculus. The course takes a fast paced college equivalency approach. Students who are enrolled are expected to prepare for the AP exam in May. Successful test results may be used for appropriate placement, college credit, or both.

**AP Statistics-** This is an Algebra-based course that uses an applied approach to show the real-world significance of statistics. It is designed to provide a thorough grounding in such core topics as descriptive statistics, probability, estimation, hypothesis testing, and linear regression. Students use statistical methods to interpret real-life data from experiments and other sources. These sources include, but are not limited to, the newspaper, magazines, and the internet. **This course is strongly recommended for students not taking Pre-Calc or AP Calc as a fourth year math.**

**AP Literature-** This 45-minute year long accelerated course covers American and World Literature. Students are expected to have a strong background in literature and composition since sophisticated levels of literature and writing are covered. Students are, therefore, expected to do summer reading and a paper prior to the first day of class. The Advanced Placement curriculum requires a fast-paced college equivalency approach. Transferable college credit can be earned upon successful completion of the AP exam.

**AP Biology-** This is an Advanced Placement (AP) course that offers a curriculum equivalent to a college biology course. Coursework will prepare students for the AP Biology exam administered in spring. Offered every other year.

**AP Chemistry-** AP Chemistry is designed to be the equivalent of a general chemistry course offered at a university. Students who enroll are expected to prepare for the AP Chemistry exam in May. Successful test results may be used for appropriate placement, college credit, or both. Students will encounter a rigorous curriculum that emphasizes atomic theory, chemical bonding, nuclear chemistry, kinetics, and thermodynamics. About twenty lab experiences some of which require milligram precision, spectrophotometers, and pH meters will be completed. Students will be expected to maintain an organized lab notebook.

**AP Psychology-** AP Psychology will cover the areas listed in Psychology I and II. It will also include an in-depth study of the brain, sensation and perception, statistics, and memory. Students will have homework every night and will have to do a lot of reading. This class is 45 minutes long, and it lasts the entire year. At the conclusion of this class,

students may elect to take the AP Psychology test that will give them college credit if they pass it.

**AP U.S. History-** Advanced Placement United States History is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems in American History. This four term, 45-minute course prepares students for intermediate and advanced college courses by making demands upon them equivalent to a full-year introductory college course as well as prepare students to take the National Advanced Placement United States History Exam in the month of May each year.