

AP Biology

Opportunity Scholarship & NCAA approved

Grades: 11-12 Credit: 1.0 Life Science.

Required Fee: \$10 lab fee. (If taking the AP Biology test at the end of the year to earn college credit, the fee is approx. \$95)

This is an Advanced Placement course that explores the areas of: molecules and cells, heredity and evolution, and organisms and populations. This course is designed to give students an opportunity to experience a college level course and curriculum with the opportunity to earn college credit.

AP Physics

Opportunity Scholarship & NCAA approved

Grades: 11-12 Credit: 1.0 Physical Science

Prerequisite: Successful completion of Secondary Math 2

Physics is the science that studies the nature of matter, energy, and their relationships. This course will primarily study mechanics (classical), and use skills developed in mathematics through college algebra/trigonometry. This is a basic course needed by all engineers and others who are going into any technical or scientific field.

AP US History/History 1700 CE

NCAA approved

Grades: 11-12 Credit: 1.0 US Studies

This course is equivalent to an entry level college course in American history with college texts and college requirements. AP U.S. History includes an in-depth study of the history of America for the serious student. The class will focus on the rich diversity of political, social, and economic trends and developments that have made America what it is today. Advanced historical analysis, methodology, reading and factual writing will be stressed and practiced. College credit is available by passing the National AP Test.

AP Calculus

Opportunity Scholarship & NCAA approved

Grades: 12 Credit 1.0 Math

Prerequisite: GPA 3.0 in Secondary Math 3 Honors Satisfy QL requirement: YES

Calculus is the study of how things change. It provides a framework for modeling systems in which there is change, and a way to deduce the predictions of such models. Students will see many correlations to physics, such as displacement, velocity, and acceleration as these are the rates of change. Other interesting topics include calculating the area of irregular regions and the volume of irregular shapes. Students will prepare to take the AP Calculus exam for college credit.

AP Language & Composition

Opportunity Scholarship & NCAA approved

Grades: 11-12 Credit: 1.0 English

AP English Language and Composition is a rigorous, college-level course in which students learn to read critically, think analytically, and communicate clearly in writing and speech. The course examines rhetoric as the art of persuasion using language and is organized in nine units, according to the requirements and guidelines of the current *AP English Course Description*. Students read and analyze a wide variety of mostly non-fiction texts, engage with all steps of the writing process including writing for particular audiences, and learn how the conventions of the English language apply in different writing situations.

Students who pass the AP English Language and Composition exam at the end of the year may earn up to eight college or university credits. In addition to preparing for the AP exam, students will also be well prepared for the ACT exam.

AP English Literature & Composition

Opportunity Scholarship & NCAA approved

Grades: 11-12 Credit: 1.0 English

AP Literature is open to all juniors and seniors ready and willing to engage in serious work and lively discussions about Western and world literary texts, focusing on understanding literature as an art form. On average, students can expect between one and two hours of homework every week and must attend class regularly. We read imaginative literature in AP Lit: novels, poetry, and plays, beginning with ancient Greek drama and ending with current trends in poetry and the novel. While close reading is the major focus, students will also practice writing for multiple purposes: writing to learn, to explain, and to explore. A major advantage of AP Literature is the amount and degree of one-on-one feedback each student receives about their writing, particularly about literary analysis. At some points in the year, students will also have the option to write original poetry and short stories.

Students who pass the AP English Literature and Composition exam at the end of the year may earn up to eight college or university credits. In addition to preparing for the AP exam, students will also be well prepared for the English and Reading sections of the ACT exam.

AP Psychology/Psychology 1010

NCAA approved

Grades: 11-12 (Sophomores with teacher approval) Credit: 1.0 Social Studies Elective

Prerequisite: Must have a 3.0 GPA

This course is equivalent to an introductory college course on modern psychology. Students will explore the major domains of psychology including scientific research methods, the brain, memory, consciousness, sleep & dreams, learning, conditioning, motivation, emotion, personality, development, social behavior, and mental illness. Not

only does the course cover these topics (and more), but it also emphasizes their implications and applications to real life. The primary objective of the course is to take and pass the ***National AP Exam*** in order to earn college credit. In addition, students will gain a much deeper understanding of themselves and other people.