

Subjects

Art

This course will investigate complex intersections between fine art (painting, sculpture, photography, and video) and visual forms designed for mass distribution and consumption (advertising, journalism, comic books, television, fashion). Selected works of architecture will also be considered.

Christian Studies

Foreign Language

The subject should emphasize the use of language for active communication and help students develop the following:

- The ability to understand spoken French in various contexts
- A French vocabulary sufficiently ample for reading newspaper and magazine articles, literary texts, and other non-technical writings without dependence on a dictionary
- The ability to express themselves coherently, resourcefully, and with reasonable fluency and accuracy in both written and spoken French.

Subject content can reflect intellectual interests shared by the students and teacher (the arts, current events, literature, sports, etc.). Materials might well include audio and video recordings, films, newspapers, and magazines.

The subject seeks to develop language skills (reading, writing, listening, and speaking) that can be used in various activities and disciplines rather than to cover any specific body of subject matter. Extensive training in the organization and writing of compositions should also be emphasized.

Health and Safety

History

The AP program in United States History is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials- their relevance to a given interpretive problem, their reliability, and their importance- and to weigh the evidence and interpretations presented in historical scholarship. An AP United States History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format.

Language Arts

Life Skills

Math

Calculus AB is designed to be taught over a full high school academic year. It is possible to spend some time on elementary functions and still cover the Calculus AB curriculum within a year. However, if students are to be adequately prepared for the Calculus AB examination, most of the year must be devoted to topics in differential and integral calculus. These topics are the focus of the AP Exam.

Prerequisites

Before studying calculus, all students should complete four years of secondary mathematics designed for college-bound students: courses in which they study algebra, geometry, trigonometry, analytic geometry, and elementary functions. These functions include those that are linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric, and piecewise defined. In particular, before studying calculus, students must be familiar with the properties of functions, the algebra of functions, and the graphs of functions. Students must also understand the language of functions (domain and range, odd and even, periodic, symmetry, zeros, intercepts, and so on) and know the values of the trigonometric functions of the numbers 0, $\pi/6$, $\pi/4$, $\pi/3$, $\pi/2$, and their multiples.

Music

Phys. Ed

Science

Fundamental concepts; names, symbols, formulas and equations; mole concept and mole calculations;

Subjects

Science

atomic structure and chemical bonding; phases of matter, solid state structure and physical properties; solutions; chemical energy and thermochemistry.

Trends and patterns in the periodic table; representative chemical elements and compounds.

Electrolytes; acids and bases; equilibria (K_a); oxidation and reduction reactions; electrochemical cells; salts, solubilities and precipitation reactions. Organic compounds, isomerism and typical functional group reactions.

Science of the Earth

Includes the Courses of Physical Geography, Planetary Science and Meteorology.