

## **AP 2-D Art and Design**

### **AP Photography**

In AP 2-D Art and Design and in AP Photography you'll develop skills using materials and processes such as graphic design, digital art, photography, collage, painting, drawing, printmaking, fashion illustration, and others. As the course concludes you'll submit a portfolio that demonstrates your ability to practice, experiment, and revise your own work while communicating your ideas about art and design.

## **AP 3-D Art and Design**

In AP 3-D Art and Design you'll learn how to create art in different disciplines such as sculpture, architectural rendering, metal work, ceramics, and others. At the end of the course you'll submit a portfolio that demonstrates your knowledge of art skills using three-dimensional materials.

## **AP Calculus AB**

AP Calculus AB is an introductory college-level course in calculus that explores the concepts and applications of differential and integral calculus. This AP course culminates in an AP Exam that's designed to test your understanding of the theoretical basis of course content and your ability to solve problems by applying your knowledge and skills.

## **AP Calculus BC**

AP Calculus BC builds on the concepts introduced in AP Calculus AB. It explores the same concepts and applications as AP Calculus AB, while adding in new topics and diving deeper into the content. AP Calculus BC covers both the first and second year of college level calculus.

## **AP Biology**

The AP Biology cultivates students' understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions.

## **AP Chemistry**

In AP Chemistry students cultivate their understanding of chemistry through inquiry based investigations, as they explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.

## **AP Computer Science A (JAVA)**

AP Computer Science A introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of

data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems.

## **AP Computer Science Principles TE**

In AP Computer Science Principles students will learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They will incorporate abstraction into programs and use data to discover new knowledge. Students will also explain how computing innovations and computing systems, including the Internet, work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

## **AP Drawing**

In this course you'll experiment with a variety of materials and processes as you develop your drawing skills. At the end of the course you'll submit a portfolio that demonstrates the different drawing abilities taught in the course, which include mark-making, line, surface, space, light and shade, and composition.

### **AP Environmental Science**

The AP Environmental Science course engages students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography.

### **AP French Language & Culture**

The AP French Language & Culture course emphasizes communication (understanding and being understood by others) by applying interpretive, interpersonal, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness.

### **AP Government Politics US (NSL)**

AP U.S. Government and Politics cultivate students' understanding of U.S. government and politics through analysis of data and text-based sources as they explore topics like constitutionalism, liberty and order,

civic participation in a representative democracy, competing policy-making interests, and methods of political analysis.

### **AP Human Geography**

AP Human Geography is an introductory college-level human geography course. Students cultivate their understanding of human geography through data and geographic analyses as they explore topics like patterns and spatial organization, human impacts and interactions with their environment, and spatial processes and societal changes.

### **AP English Language and Composition**

The AP English Language and Composition course focuses on the development and revision of evidence-based analytic and argumentative writing and the rhetorical analysis of nonfiction texts.

### **AP English Literature and Composition**

The AP English Literature and Composition course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods.

### **AP Music Theory (*not offered 24-25*)**

In AP Music Theory students learn to recognize, understand, describe, and produce the basic elements and processes of performed and notated music. Course content extends from the fundamentals of pitch, rhythm, timbre, and expression to concepts of harmonic function, phrase relationships, and tonicization.

### **AP Physics 1:**

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion.

### **AP Physics C: Electricity and Magnetism**

AP Physics C: Electricity and Magnetism is a calculus-based, college level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus are used throughout the course.



### **AP Physics C: Mechanics**

AP Physics C: Mechanics is a calculus-based, college-level physics course. It covers kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation.

### **AP Psychology**

The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, evaluate claims and evidence, and effectively communicate ideas.

### **AP Seminar**

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Students learn to investigate a problem or issue, analyze arguments, compare different perspectives, synthesize information from multiple sources, and work alone and in a group to communicate their ideas.

### **AP Spanish Language & Culture**

The AP Spanish Language & Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

### **AP Spanish Literature & Culture**

AP Spanish Literature is equivalent to a college level introductory survey course of literature written in Spanish. Students continue to develop their interpretive, interpersonal, and presentational skills in Spanish language as well as critical reading and analytical writing as they explore short stories, novels, plays, essays, and poetry from Spain, Latin America, and U.S. Hispanic authors along with other non-required texts.

### **AP Statistics**

The AP Statistics course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes evident in the content, skills, and assessment in the AP Statistics course: exploring data, sampling and experimentation, probability and simulation, and statistical inference. Students use technology, investigations,

problem solving, and writing as they build conceptual understanding.

### **AP U.S. History**

In AP U.S. History, students investigate significant events, individuals, developments, and processes from approximately 1491 to the present. Students develop and use the same skills and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change.

### **AP World History: Modern**

AP World History: Modern is an introductory college-level modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.