



# AP<sup>®</sup> Course Listing

## AP<sup>®</sup> Art History

Course explores the history of art across the globe from prehistory to the present. Students analyze works of art through observation, discussion, reading, and research. This course prepares students for the AP exam. Prerequisite: World History recommended

## AP<sup>®</sup> Biology

Course is an introductory college-level biology course in which students study the core scientific principles, theories, and processes that govern living organisms and biological systems. Students perform hands-on laboratory work to investigate natural phenomena. This course prepares students for the AP exam. Prerequisites: Biology, Chemistry and Algebra I recommended

## AP<sup>®</sup> Calculus AB

Course is an introductory college-level calculus course, students explore the concepts, methods, and applications of differential and integral calculus. They work to understand differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of function. This course fulfills the requirements for the AP exam. Prerequisites: Algebra I, Geometry, Algebra II, and Pre-Calculus or Trigonometry/ Analytical Geometry

## AP<sup>®</sup> Calculus BC

Course is an introductory college-level calculus course in which students explore the concepts, methods, and applications of differential and integral calculus, including topics such as parametric, polar, and vector functions, and series. This course fulfills the requirements for the AP exam. Prerequisites: Algebra I, Geometry, Algebra II, and Pre-Calculus or Trigonometry/Analytical Geometry

## AP<sup>®</sup> Chemistry

Course is the equivalent of an introductory college chemistry course, students learn about the fundamental concepts of chemistry including structure and states of matter, intermolecular forces, and reactions. Students do hands-on lab investigations and use chemical calculations to solve problems. This course prepares students for the AP exam. Prerequisites: Chemistry, Algebra I, and Algebra II

## AP<sup>®</sup> Computer Science A

Course is the equivalent to the first semester of a college level computer science course, allows students to get familiar with the concepts and tools of computer science as you learn a subset of the Java programming language. Students do hands-on work to design, write, and test computer programs that solve problems or accomplish tasks. This course prepares students for the AP exam. Prerequisites: Algebra I, Geometry, and Algebra II required.

## AP<sup>®</sup> English Language and Composition

This course provides high school students with college-level instruction in analyzing and writing various texts. Students learn about the elements of argument and composition as they develop their critical-reading and writing skills. Students read and analyze nonfiction works from various periods and write essays with different aims: for example, to explain an idea, argue a point, or persuade the reader of something. This course will effectively prepare students for the AP exam. Prerequisites: English I & II

## AP<sup>®</sup> English Literature and Composition

Course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students learn how to understand and evaluate works of fiction, poetry, and drama from various periods and cultures through the reading of literary works and writing of essays to explain and support their analysis of passages they've read. This course prepares students for the AP exam. Prerequisites: English I, II & III recommended

## AP<sup>®</sup> Environmental Science

Provides students with the opportunity to explore and investigate the interrelationships of the natural world and analyze environmental problems, both natural and human-made. Students take part in laboratory investigations and field nonscientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. This course prepares students for the AP exam. Prerequisites: Algebra I and two years of high school science with labs

## AP<sup>®</sup> European History

Students study the cultural, economic, political, and social developments that have shaped Europe from c. 1450 to the present. Students analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments. This course prepares students for the AP exam.

## AP® French Language & Culture

Course is an advanced language course in which students acquire proficiencies that expand their cognitive, analytical, and communicative skills. The course prepares students for the AP Exam. It uses as its foundation the three modes of communication (interpersonal, interpretive, and presentational) as defined in the Standards for Foreign Language Learning in the Twenty-First Century. The course is designed as an immersion experience requiring the use of French exclusively.

## AP® Human Geography

Students explore how humans have understood, used, and changed the surface of Earth. Students use the tools and thinking processes of geographers to examine patterns of human population, migration, and land use. This course prepares students for the AP exam.

## AP® Macroeconomics

Course is a semester-length introductory college-level course in which students explore the principles of economics that apply to an economic system as a whole. Students use graphs, charts, and data to analyze, describe, and explain economic concepts. This course prepares students for the AP exam. Prerequisite: Algebra I recommended

## AP® Microeconomics

Course is a semester-long introductory college-level microeconomics course, allows students to study the principles of economics that apply to the behavior of individuals within an economic system. They use graphs, charts, and data to analyze, describe, and explain economic concepts. This course prepares students for the AP exam. Prerequisite: Algebra I recommended

## AP® Modern World History

Students study the cultural, economic, political, and social developments that have shaped the world from c. 1200 CE to the present. They analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments. This course prepares students to take the AP exam.

## AP® Physics 1

This is an algebra-based physics course, students learn about the foundational principles of physics as you explore Newtonian mechanics; work, energy, and power; mechanical waves and sound; and introductory, simple circuits. They do hands-on laboratory work to investigate phenomena. This course prepares students to take the AP exam.

## AP® Psychology

Course provides students with the opportunity to explore the ideas, theories, and methods of the scientific study of behavior and mental processes. Students examine the concepts of psychology through reading and discussion and analyze data from psychological research studies. This course prepares students for the AP exam.

## AP® Spanish Language and Culture

Course is an advanced language course in which students acquire proficiencies that expand their cognitive, analytical, and communication skills. The course prepares students for the AP exam. It uses as its foundation the three modes of communication (interpersonal, interpretive, and presentational) as defined in the Standards for Foreign Language Learning in the Twenty-First Century. The course is designed as an immersion experience and is conducted almost exclusively in Spanish.

## AP® Statistics

Course is an introductory college-level statistics course that introduces students to the major concepts and tools used for collecting, analyzing, and drawing conclusions from data. Students explore statistics through discussion and activities, and design surveys and experiments. This course prepares students for the AP exam. Prerequisite: Algebra II

## AP® U.S. Government and Politics

Course is a semester-long course, students study the key concepts and institutions of the political system and culture of the United States. They read, analyze, and discuss the U.S. Constitution and other documents as well as complete a research or applied civics project. This course prepares students for the AP exam. Prerequisite: United States History recommended

## AP® U.S. History

AP® U.S. History, an introductory college-level course, gives students an opportunity to study the cultural, economic, political, and social developments that have shaped the United States from c. 1491 to the present. Students analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments. This course prepares students for the AP exam. Prerequisite: World History recommended

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Some courses may require materials and have shortened descriptions.