

AP Calculus AB

AP Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. Before studying calculus, it is highly recommended that students complete four years of secondary mathematics designed for college-bound students.

AP Chemistry

The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations. This course requires 25 percent of the instructional time provides students with opportunities to engage in laboratory investigations, including a minimum of 16 hands-on labs, at least six of which are inquiry based. It is highly recommended that students have successfully completed a general high school chemistry course and Algebra II.

AP Computer Science A

AP Computer Science A is a course designed for students to become familiar with the concepts and tools of computer science as they learn a subset of the Java programming language. Students will participate in hands-on work to design, write, and test computer programs that solve problems or accomplish tasks.

AP English Language and Composition

The AP English Language and Composition course aligns to an introductory college rhetoric and writing curriculum. The course focuses on the development and revision of evidence-based analytic and argumentative writing and the rhetorical analysis of nonfiction texts. There are no prerequisite courses for AP English Language and Composition.

AP English Literature and Composition

The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. There are no prerequisite courses for AP English Literature and Composition.

AP Music Theory

The AP Music Theory course corresponds to one or two semesters of a typical introductory college music theory course that covers topics such as musicianship, theory, musical materials, and procedures. Musicianship skills, including dictation and other listening skills, sight singing, and harmony, are considered an important part of the course. There are no prerequisite courses for AP Music Theory.

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. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices. There are no prerequisite courses. It is highly recommended that students have completed geometry and be concurrently taking Algebra II or an equivalent course.

AP Statistics

AP Statistics students will learn about the major concepts and tools used for collecting, analyzing, and drawing conclusions from data. They will explore statistics through discussion and activities, and they will have the opportunity to design surveys and experiments.

AP Studio Art: 2-Dimensional Design, 3-Dimensional Design, and Drawing

The AP Program offers three studio art courses and portfolios. The AP Studio Art portfolios are designed for students who are seriously interested in the practical experience of art. AP Studio Art students create a portfolio of work to demonstrate the artistic skills and ideas they have developed, refined, and applied over the course of the year to produce visual compositions and to submit the portfolios for evaluation at the end of the school year. There are no prerequisite courses for AP Studio Art.

AP United States History

The AP U.S. History course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and the development of students' abilities to think conceptually about U.S. history from approximately 1491 to the present. Seven themes of equal importance provide areas of historical inquiry for investigation throughout the course. There are no prerequisite courses for AP U.S. History.

AP World History

The AP World History course focuses on developing students' understanding of the world history from approximately 8000 BCE to the present. This college-level course has students investigate the content of world history for significant events, individuals, developments, and processes in six historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. There are no prerequisite courses for AP World History.