

2016-2017



This catalog is a complete list of our AP courses along with their relevant descriptions for the 2016-2017 school year.

AP Course Catalog

AP ART HISTORY – 1 CREDIT

This course is designed to foster in students an understanding and knowledge of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. Students examine and critically analyze major forms of artistic expression from the past and the present from a variety of cultures. In addition to visual analysis, this course emphasizes understanding works in context, considering such issues as patronage, gender and the functions and effects of works of art. Prior art training is not a prerequisite nor does the course cater exclusively to future Art History majors. This course was designed to meet the requirements of the Advanced Placement Art History requirements precisely. Students will learn to look at these works of art critically, with intelligence and sensitivity and to articulate what they see or experience in light of a Christian worldview. Students will be able to identify the presence or absence of Biblical truth reflected in art and architecture through the centuries.

Prerequisites: Course intended for Juniors and Seniors. Successful completion of World History and high-level reading and writing skills are strongly recommended.

****AP BIOLOGY – 1 CREDIT**

This challenging course is designed to provide a college-level experience and prepare students for the AP exam in early May. Over two semesters, the students are engaged in a wide variety of activities, with substantial emphasis on interpreting and collecting data in virtual labs, writing analytical essays and mastering Biology concepts and connections. The key themes of the AP Biology course are: the scientific processes, the effects of science on technology and society, the chemistry and make up of living organisms, genetics, Creation, and diversity.

Throughout this course you will be expected to answer questions, reflect on issues and complete lab activities. The primary emphasis is to develop an understanding of concepts rather than memorizing terms and technical details. The course will successfully prepare you for the AP Exam in May.

Prerequisites: Biology I, Chemistry I, Algebra I

AP CALCULUS AB – 1 CREDIT

An interactive text, graphing software and math symbol software combine with the exciting on-line course delivery to make Calculus an adventure. This course is designed to prepare the student for the AP Calculus AB exam given each year in May. With continuous enrollment, students can start the course and begin working on Calculus as early as spring of the previous year!

An Advanced Placement (AP) course in calculus consists of a full high school year of work that is comparable to calculus courses in colleges and universities. It is expected that students who take an AP course in calculus will seek college credit, college placement, or both, from institutions of higher learning.

Most colleges and universities offer a sequence of several courses in calculus, and entering students are placed within this sequence according to the extent of their preparation, as measured by the results of an AP examination or other criteria.

Prerequisites: Algebra I, Geometry, Algebra II, Pre-Calculus or Trigonometry/Analytical Geometry

AP COMPUTER SCIENCE A – 1 CREDIT

The AP® Computer Science A course is equivalent to the first semester of a college level computer science course. The course involves developing the skills to write programs or part of programs to correctly solve specific problems. AP® Computer Science A also emphasizes the design issues that make programs understandable, adaptable, and when appropriate, reusable. At the same time, the development of useful computer programs and classes is used as a context for introducing other important concepts in computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, and the study of standard algorithms and typical applications. In addition an understanding of the basic hardware and software components of computer systems and the responsible use of these systems are integral parts of the course.

Prerequisites: Algebra I & II

AP ENGLISH LANGUAGE AND COMPOSITION – 1 CREDIT

The AP Language and Composition course will provide high school students with college level instruction in studying and writing various kinds of analytic or persuasive essays on literary and nonliterary topics in language, rhetoric and expository writing. Students will become skilled readers of prose written in various periods, disciplines, and rhetorical contexts. Both their reading and writing should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way writing conventions and language contribute to effectiveness in writing. This course will effectively prepare students for the AP Exam by enabling them to read, comprehend, and write about complex texts, while developing further communication skills on a college level.

Prerequisites: Teacher recommendation, English I, II (honors), with a B+ average. Student will be exposed to a college-level course

AP ENGLISH LITERATURE AND COMPOSITION – 1 CREDIT

For a year, participate in an AP upscale dining experience in the AP Literature and Composition course. Students act as food critics of exquisite literary cuisine. Menu items include reading, analyzing, writing, rewriting, and discussing creations by the master chefs, renowned authors. With intensive concentration on composition skills and on authors' narrative techniques, this dining experience equips students with recipes for success in college, in a career and the AP exam.

Prerequisites: Recommendation, English I, II, III with a B+ average. Student will be exposed to college-level composition and literature.

AP MACROECONOMICS – ½ CREDIT

You have been called upon to assist the leader of the Macro Islands who is running for reelection next year. The economy is in shambles, and you need to come up with some feasible solutions. This will not only help the people of the Macro Islands but will also ensure a victory for your employer.

You were hired over the Internet and received a first class ticket to the Macro Islands where you can learn firsthand about the situation. You arrive at Pineapple Airport in the middle of the day and are met by a man with a briefcase who is holding a sign with your name on it. You approach the man and introduce yourself.

"I'm Mr. Scarcity," he says. "I'll be your guide as you learn about the economic situation of the islands. You need to learn everything you can about both macroeconomics and our Macro Islands for your presentation to our island leader in May." (Your AP Exam.)

Prerequisites: None. Students will be exposed to a college-level learning experience.

AP MICROECONOMICS – ½ CREDIT

You traveled to the Macro Islands to assist the leader in winning re-election. You came for a job, but you realized as you were working that you loved the islands and wanted to make your home there. Because you are adept at giving economic advice to the leader, you have been appointed as the new President of the Sunny Seas Shell Company.

As part of your role in assuming the leadership duties of the company, you will need to brush up on microeconomics. The Board of Directors has appointed Ms. Equilibrium to act as your personal assistant and advisor as you transition into your new role. You will be learning all you can about microeconomics and will be required to exhibit your knowledge in May at the annual Board of Directors' meeting (the AP exam).

Prerequisites: None. Students will be exposed to a college-level learning experience.

AP STATISTICS – 1 CREDIT

This course is designed to provide college-level instruction on the concepts and tools for working with data. Students collect and analyze data and draw conclusions based on real-world information. The course challenges students to explore patterns, think critically, use a variety of tools and methods, and report their findings and conclusions. Statistics are used everywhere from fast food businesses ordering hamburger patties to insurance companies setting rates to predicting a student's future success by the results of a test. Students will become familiar with the vocabulary, method, and meaning in the statistics which exist in the world around them. This is an applied course in which students actively construct their own understanding of the methods, interpretation, communication, and application of statistics. [C4] Each unit is framed by enduring understandings and essential questions designed to allow students a deep understanding of the concepts at hand rather than memorization and emulation. Students will also complete several performance tasks throughout the year consisting of relevant, open-ended tasks requiring students to connect multiple statistical topics together. [C4] The TI83+/ 84 OR 89 calculator and computers will be used to explore the world of data and the patterns which can be found by analyzing this information as well as statistical relationships. [C5] General topics of study include "exploring data," "planning and design of a study," anticipating patterns," and "statistical inference."

Prerequisites: Algebra 2

AP US GOVERNMENT & POLITICS – ½ CREDIT

"Lights, Camera, Action" ...Prepare to study the intricacies of the American Political Culture. The script is written and the actors participate daily in the drama of American politics. You will be "on location" to delve into primary source documents. You will go behind the scenes with stars such as the President, Congress people, and Supreme Court Justices. You will research the roles of the media, political parties, interest groups, states, candidates, bureaucracy, and the public in the governmental process. Finally, you will witness the large-scale production of policy building in the areas of economic/social policy, foreign policy and public administration.

Prerequisites: Successful completion of American History is strongly recommended.

Prerequisites: Successful completion of World History is strongly recommended

AP US HISTORY – 1 CREDIT

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 an understanding of content learning objectives organized around seven themes, such as identity, peopling, and America in the world. In line with college and university U.S. history survey courses' increased focus on early and recent American history and decreased emphasis on other areas, the AP U.S. History course expands on the history of the Americas from 1491 to 1607 and from 1980 to the

present. It also allows teachers flexibility across nine different periods of U.S. history to teach topics of their choice in depth.

Prerequisites: Successful completion of World History is strongly recommended

AP WORLD HISTORY – 1 CREDIT

AP World History covers the history of the world from 600 C.E. to the present with an introduction unit on the period before (covering around 8000 B.C.E. to 600 C.E.). The course emphasizes—patterns of change II and the connections between the various world cultures throughout the time period being studied. Students will gain an understanding of the global experiences of humanity and be able to apply that knowledge to their growth and development as—citizens of eternity II. The class has two major goals: (1) to prepare students to be successful on the AP World History exam and (2) to provide students with an understanding on why the world developed the way it did.

Prerequisites: None

** The noted AP course fulfills all of the components required in an AP science course with the exception of the minimum time required to be spent engaged in hands-on laboratory work/field experiences. Colleges and universities are encouraged to request the required lab notebook or portfolio of lab reports from students enrolled in this course in order to make determinations regarding credit and/or placement.