

COVENANT CHRISTIAN ACADEMY

High School Advanced Placement Courses*

*Online AP courses offered in conjunction with Sevenstar Academy and Georgia Virtual Learning***

Overview of Courses Offered <i>(Detailed course descriptions are on the following pages)</i>						
Business	English	Fine Arts	Mathematics	Science	Social Studies	Technology
AP Microeconomics Online Only Open to: Freshman, Sophomores, Juniors, and Seniors. Credit = 0.5	AP English Language and Composition Classroom & Online Open to: Juniors and Seniors. Credit = 1.0	AP Art History Online Only Open to: Sophomores, Juniors, and Seniors. Credit = 1.0	AP Calculus AB Classroom & Online Open to: Seniors. Credit = 1.0	AP Biology Online Only Open to: Juniors and Seniors. Credit = 1.0	AP US Government & Politics Classroom & Online Open to: Juniors and Seniors. Credit = 0.5	AP Computer Science Online Only Open to: Juniors and Seniors. Credit = 1.0
AP Macroeconomics Online Only Open to: Sophomores, Juniors, and Seniors. Credit = 0.5	AP English Literature and Composition Classroom & Online Open to: Seniors. Credit = 1.0		AP Statistics Online Only Open to: Juniors and Seniors. Credit = 1.0	AP Environmental Classroom & Online Open to: Freshman, Sophomores, Juniors, and Seniors. Credit = 1.0	AP World History Online Only Open to: Sophomores, Juniors, and Seniors. Credit = 1.0	
					AP US History Classroom & Online Open to: Sophomores, Juniors, and Seniors. Credit = 1.0	

* AP courses are advanced by designed. The goal of these courses is to expose students to college level work. As a result, the final course grade for all AP level courses will be weighted on a 5.0 grading scale. For example, an "A" in college preparatory US History would receive 4.0 quality points while an "A" in AP US History would receive a +1 quality point bonus, which would result in a 5.0. AP courses are electives and are not required for graduation.

** The costs associated with online AP courses are not included in a student's standard tuition.

Detailed Course Descriptions

AP ART HISTORY (High School Credit = 1.0)

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: Teacher recommendation

AP BIOLOGY (High School Credit = 1.0)

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, Chemistry, Algebra I

AP CALCULUS AB (High School Credit = 1.0)

This course is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

Prerequisites: Advanced Mathematics

AP COMPUTER SCIENCE A (High School Credit = 1.0)

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

Detailed Course Descriptions

AP ENGLISH LANGUAGE AND COMPOSITION (High School Credit = 1.0)

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

AP ENGLISH LITERATURE AND COMPOSITION (High School Credit = 1.0)

The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. 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

AP ENVIRONMENTAL SCIENCE (High School Credit = 1.0)

The AP Environmental Science course challenges students to explain various environmental concepts and processes through analyzing data, reviewing and preparing visual representations, and key writings. Students will apply various quantitative methods to solve environmental problems and propose solutions with supporting evidence. Students will also analyze research studies and identify a hypothesis. This course will effectively prepare students for the AP Exam.

Prerequisites: Teacher recommendation

AP MACROECONOMICS (High School Credit = 0.5)

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 first-hand 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." (i.e., *Your AP Exam.*)

Prerequisites: Teacher recommendation

AP MICROECONOMICS (High School Credit = 0.5)

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: Teacher recommendation

AP STATISTICS (High School Credit = 1.0)

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 (High School Credit = 0.5)

Study the key concepts and institutions of the political system and culture of the United States. The class will read, analyze, and discuss the U.S. Constitution and other documents as well as complete a research or applied civics project. This course will effectively prepare students for the AP Exam.

Prerequisites: US History

AP US HISTORY (High School Credit = 1.0)

The study of history provides us with an opportunity to see God's hand in our story. AP United States History will guide students through exploration, investigation, and evaluation of the story of the United States. They will discover that history isn't a mere collection of information about the past. It's a dynamic story of how the present world came to be, shifting and reshaping as new details and evidence are revealed. It is an opportunity to evaluate the beliefs and philosophies of those who have shaped history against the truth and guidelines of God's Word. It is also an instrument to explore decisions and the outcomes of those decisions as we apply those lessons to our time. The course is designed to mirror a college-level survey course in U.S. history and uses a college-level text. While the textbook comes from a particular political perspective, peer and instructor discussions will focus on alternative interpretations of history as well as the development of skills to evaluate history from a biblical perspective. At the completion of this course, the student will be equipped to not only pass the AP exam, but also to understand their role in the world as they live out the next chapter of the story.

Prerequisites: Teacher recommendation

AP WORLD HISTORY (High School Credit = 1.0)

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 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. 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: Teacher recommendation