

CHHS AP & Gifted

Course Offerings 2012

	9 th	10 th	11 th	12 th
Language Arts	-FR Gifted LA OR -Honors FR LA	-AP Track Gifted/Honors JR LA or -Soph Gifted LA	-AP Literature/ Language Comp or -AP Track Gifted/Honors JR LA	-AP Literature/ Language Comp II or AP Lang and Comp or AP Lit and Comp
Math	-Gifted Accel Alg I CC OR -Accel Alg I CC	-AP Statistics (elective) -Gifted Accel Geom CC OR -Accel Geom CC	-AP Statistics (elective) -Gifted Accel Precal CC OR -Accel Precal CC	-AP Statistics -AP Calculus AB -AP Calculus BC -Dual Enrollment w/ GA Tech
Science	-Gifted Biology OR -Honors Biology	-Gifted Chemistry OR -Honors Chemistry	-AP Chemistry -AP Biology -AP Environmental Science -AP Physics B	-AP Chemistry -AP Biology -AP Environmental Science -AP Physics C
Social Studies	-AP Human Geography OR -Honors Geog	-AP World History OR -Honors World History	-AP US History OR Honors US History	-AP Psychology -AP Economics -AP Gov't & Politics
Fine Arts			-AP Music Theory -AP Studio Art	-AP Music Theory -AP Studio Art
Foreign Language			-AP Spanish* -AP French*	-AP Spanish -AP German -AP French
Career & Tech Ed		-AP Computer Science	-AP Computer Science	-AP Computer Science
Misc			-Gifted Directed Studies -Gifted Internship	-Gifted Directed Studies -Gifted Internship

*Students able to take these in the JUNIOR year would be those who took the first year in Middle School and were placed in Spanish or French 2 in the Freshman year.

DESCRIPTION OF AP COURSE OFFERINGS

Biology (rising 11th or 12th grade students): This course is designed to be the equivalent of a two-semester college introductory biology course. It should be taken by students after the successful completion of a first course in high school biology and one in high school chemistry. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Eleventh grade students who opt to take this course must also be enrolled in Physics.

Calculus (AB and BC; rising 11th or 12th grade students): An AP course in calculus consists of a full high school academic year of work that is comparable to calculus courses in colleges and universities. The AP Program includes specifications for two calculus courses. Calculus AB devotes the year to topics in differential and integral calculus. Calculus BC is a full-year course in the calculus of a single variable. It includes all topics covered in Calculus AB plus additional topics. Both courses are challenging and demanding. Students need strong Algebra and Trigonometry skills to be successful.

Chemistry (rising 11th or 12th grade students): This class is designed to be the equivalent of the general chemistry course usually taken during the first college year. Students will attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. Laboratory experiences are an important part of this course.

Computer Science (rising 11th and 12th grade students): This is an introductory course in computer science. Because the development of computer programs to solve problems is a skill fundamental to the study of computer science, a large part of the course is built around the development of computer programs or parts of programs that correctly solve a given problem. The course also emphasizes the design issues that make programs understandable, adaptable, and, when appropriate, reusable. 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. Eleventh grade students should have taken at least Algebra II before applying.

English:

*Students who apply and are recommended to pursue AP English at the end of their freshman year will skip sophomore language arts and will take 11th Grade American Literature and Composition as sophomores. They will then be enrolled in a 2-year course sequence integrating AP English Language, Literature, and Composition during their junior and senior years. Students who apply and are recommended to pursue AP English at the end of their sophomore or junior year will choose between AP English Language Composition and AP English Literature and Composition as their senior language arts course.

***English Language and Composition (Track Course):** This course focuses more on nonfiction and rhetoric. Students will engage in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes including analysis, synthesis, and argumentation.

***English Literature and Composition (Track Course):** This course focuses on the student of literature of various genres including fiction and nonfiction, novels, short stories, poetry, and drama. While the composition involves synthesis of various sources and argumentation, it focuses primarily on literary analysis. This course is for students who are interested in studying literature of various genres and using this wide reading knowledge in discussions of literary topics. Students are taught the elements of rhetoric: writing with a purpose, addressing and appealing to an audience, creating effective text structures, and affecting an appropriate style.

Environmental Science (rising 11th, or 12th grade students): The goal of this course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and preventing them. Environmental science is interdisciplinary and includes such subjects as geology, biology, environmental studies, chemistry, sociology, economics and geography.

French Language (rising 11th and 12th grade students): Students who enroll in this course should have a good command of French grammar and vocabulary and have competence in listening, reading, speaking, and writing. The course emphasizes the ability to understand spoken and written French in various contexts. Prerequisites are Honors French III and/or Honors French IV.

German Language (12th grade students): The course takes a holistic approach to language proficiency and recognizes the complex interrelatedness of comprehension and comprehensibility, vocabulary usage, language control, communication strategies and cultural awareness. The course strives to promote both fluency and accuracy in language use.

Human Geography (rising 9th grade students only): The purpose of this course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. No prerequisites are required.

Macroeconomics (rising 12th grade students): This course can be used to satisfy the Economics requirement for graduation. The purpose of this course is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. Such a course places particular emphasis on the study of national income and price-level determination, and also develops a students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics.

Music Theory (rising 10th, 11th and 12th grade students): The ultimate goal of an AP Music Theory course is to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. The course will instill mastery of the rudiments and terminology of music, including hearing and notating pitches, intervals, scales and keys, chords, metric organization, and rhythmic patterns.

Physics B and C (rising 11th (B) or 12th (C) grade students): The aims of these courses are to develop students' abilities to do the following: read, understand, and interpret physical information; describe and explain the sequence of steps in the analysis of a particular physical phenomenon or problem; use basic mathematical reasoning; and perform experiments and interpret the results of observations, including making an assessment of experimental uncertainties. Physics B satisfies the Physics graduation requirement. Students taking Physics C must have had an Honors Physics class or AP Physics B. Also, students in Physics C must be concurrently enrolled in AP Calculus or have already passed the course. Physics C alone does not satisfy the Physics requirement for graduation.

Psychology (rising 12th grade students): This course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice.

Spanish Language (rising 11th and 12th grade students): This course is intended for students who wish to develop proficiency and integrate their language skills, using authentic materials and sources. Students who enroll should already have a basic knowledge of the language and cultures of Spanish-speaking peoples and should have attained a reasonable proficiency in using the language.

Spanish Literature (Any student that has passed AP Spanish Language): This course is comparable to a third-year college introduction to Hispanic literature course. It is based on a required reading list which includes works of literary significance and represents various historical periods, literary movements, genres, geographic areas, and population groups within the Spanish-speaking world. The objective of the course is to help the student learn to interpret and analyze literature in Spanish.

Statistics (rising 11th or 12th grade students): The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are expected to master four conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference.

Studio Art (2-D Design, 3-D Design, and Drawing; rising 11th and 12th graders): Before applying, a student must have taken a year of Drawing and Painting and/or Sculpture and have teacher approval based on a portfolio review. AP Studio Art is actually three separate courses. Students will consult the instructor to choose which is best for them. The course is not based on a written exam; instead, students submit an extensive portfolio for evaluation at the end of the school year. The class is designed for students who are seriously interested in the practical experience of art.

United States Government and Politics (rising 12th grade students): This course can be used to satisfy the Political Systems/Government requirement for graduation. Students completing this course will know important facts, concepts, and theories pertaining to U.S. government and politics. Students will also learn about the typical patterns of political processes and behavior and their consequences, and they will be able to analyze and interpret basic data relevant to U.S. government and politics.

United States History (rising 11th grade students): This class can be used to satisfy the U.S. History requirement for graduation. This course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History. The students will learn to assess historical materials—their relevance to a given interpretive problem, reliability, and importance—and to weigh the evidence and interpretations presented in historical scholarship.

World History (rising 10th grade students): This AP course satisfies the World History requirement for graduation. The purpose of this class is to develop greater understanding of the evolution of global processes and contacts in interaction with different types of human societies. The course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage.