

Advanced Academics courses offered at Hastings High School (click headers to skip subject page with descriptions and prerequisites) Pre-AP Course Count: 15 AP Course Count: 23 (Total 38)

ART

Pre AP Art Drawing II	AP ART Two-Dimensional Design Portfolio IV
Pre AP Painting II	AP ART Three-Dimensional Design Portfolio IV
Pre AP Ceramics/Sculpture I	AP Art Studio-Drawing Portfolio IV

ENGLISH

Pre-AP English I	AP English III
Pre-AP English II	AP English IV

LANGUAGES OTHER THAN ENGLISH

Pre-AP Spanish III	Pre-AP Chinese III
AP Spanish IV (Language)	AP Chinese IV – Language
AP Spanish V (Literature)	AP Chinese V

MATHEMATICS

Pre-AP Algebra I	Pre-AP Pre-Calculus A & B
Pre-AP Geometry	AP Statistics
Pre-AP Algebra II	AP Calculus AB

SCIENCE

Pre-AP Biology I	AP Physics I
Pre-AP Chemistry I	AP Physics C
	AP Environmental Science

SOCIAL STUDIES

Pre-AP World Geography	AP United States History
AP Human Geography	AP United States Government and Politics
Pre-AP World History	AP Macroeconomics
AP World History	AP Psychology

TECHNOLOGY APPLICATIONS

AP Computer Science A	Pre-AP Computer Science I
AP Computer Science Principles	

ART

Pre AP Art Drawing II

Prerequisite: A. Grades 10-11 B. Drawing I C. Teacher Approval Credit: One (state)

Advanced students prepare for the AP Drawing and 2D Advanced Placement Design Portfolios. Students explore observational and interpretive drawings in a variety of media and in a challenging and stimulating atmosphere. Analytical and communication skills are mastered with greater responsibility for his/ her art progress and exposure to artists, styles of art and art history. Students develop higher intellectual engagement and independent learning skills crucial to success in AP art courses. An art portfolio is kept.

Pre AP Painting II

Prerequisites: A. Grade 11-12 B. Pre AP Painting I C. Teacher Approval Credit: One (state)

Pre AP Painting I is designed for students who want to advance their studies in painting. Students will explore and experiment with painting media and begin to introduce other media into the painting process. The painting projects will be more complex and will require serious problem solving to demonstrate quality and rigor. A portfolio will be kept.

Pre AP Ceramics/Sculpture I

Prerequisites: A. Grade 10-11 B. ART I C. Teacher Approval Credit: One (state)

This course is a study of three-dimensional design in a variety of media with an emphasis in clay. Functional and non-functional techniques in both sculpture and ceramics will be explored. Students will develop a personal style of expression through works in a variety of sculptural/ceramic media such as paper, stoneware clay, raku clay, earthenware clay, wood, hand-building, throwing on the potter's wheel, glazing, under glazing, stains. Alternative firing and surface techniques may be explored. Students are introduced to the three sections and expectations of the AP 3 Dimensional Design Portfolio. Students will learn to evaluate their own work by studying the elements and principles of art. Students will begin to prepare a digital portfolio of their work.

AP Art Studio-Drawing Portfolio IV

Prerequisites: A. Grade 11-12 B. Any ART III Level Course C. Teacher Approval

Credit: One (state)

Highly motivated students pursue in-depth drawing and painting at the AP level of quality. Students can receive credit for college level course work in high school through this course. Students select a concentration of visual interest for part of the portfolio and breadth of experience in technical completion for the rest of the portfolio. This combination provides the students with portfolio for college entrance, college credit, and/or employment. A portfolio is required.

AP ART Two-Dimensional Design Portfolio IV

Prerequisites: A. Grade 11-12 B. ART III Level Courses C. Teacher Approval Credit: One (state)

Students demonstrate proficiency in two-dimensional design in art forms including painting, drawing, printmaking, graphics design, typography, digital imaging, photography, collage, fabric design, weaving and illustration. The portfolio expectations are divided into three sections: Concentration, Breadth, and Quality. These sections represent the student's best work and are submitted to the College Board. All students will assemble a portfolio that meets AP guidelines. Successful completion can earn college credit, college entrance or employment. Completion of a portfolio is required.

Art: AP ART Three-Dimensional Design Portfolio IV

Prerequisites: A. Grade 11-12 B. ART III Level Courses C. Teacher Approval Credit: One (state)

This course is intended to address a very broad interpretation three dimensional design issues. This type of design involves purposeful decision making about how to use the elements and principals of art in an integrated way. The students are asked to demonstrate proficiency in three-dimensional design utilizing a variety of approaches. These approaches might be, but not limited to, jewelry, traditional sculpture techniques, apparel, ceramics, architectural models, fiber arts, and metal work. The portfolio expectations are divided into three sections: Concentration, Breadth, and Quality. These sections represent the student's best work and are submitted to the College Board with images of the selected pieces. Completion of the portfolio is required.

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ENGLISH

Pre-AP English I

Prerequisites: A. Grade 9 B. Contract Credit: One (state)

Pre-AP English I is a more rigorous and comprehensive study of English I TEKS, including much more extensive reading and writing and an introduction to literary analysis. Initial preparation for AP English begins in this course. More in-depth analysis of literary elements and author's craft are required in the course. A summer reading component is required. Preparation for EOC Reading and Writing Grade 9 is included in the course.

Pre-AP English II

Prerequisites: A. Grade 10 B. Contract Credit: One (state)

Pre-AP English II is a more rigorous and comprehensive study of the English II TEKS. Preparation for AP English III and AP English IV are included, especially through language and literature analyses, critiques, and analyses of author's craft in both literary and expository texts. A summer reading component is required. Preparation for EOC Reading and Writing Grade 10 is included in the course.

AP English III

Prerequisites: A. Grade 11 B. Two credits of English C. Contract Credit: One (state)

AP English III provides a differentiated curriculum that is much more rigorous and academically challenging than English III. The course follows curriculum recommendations of the College Board as preparation for the AP English Language and Composition exam through extensive language and literary analyses and critiques. A summer reading component is required.

and research. Students use oral and visual representations to communicate with others.

AP English IV

Prerequisites: A. Grade 12 B. Three credits of English C. Contract Credit: One (state)

AP English IV provides a differentiated curriculum that is much more rigorous and academically challenging than English IV. The course follows curriculum recommendations of the College Board as preparation for the AP English Literature and Composition exam through extensive reading and literary analyses and critiques. A summer reading component is required.

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LANGUAGES OTHER THAN ENGLISH

The Recommended High School Program requires two years of the same language for graduation. Under the Distinguished Achievement High School Program three years of the same foreign language are required for graduation. Middle school students who successfully complete Spanish Level I receive one state credit and grade points toward graduation. Students are placed at Level II of the same language in high school.

Pre-AP Spanish III

Prerequisites: A. Spanish III B. Contract Credit: One (1) state credit

Pre AP Spanish III focuses on the same essential knowledge and skills as Spanish III with added emphasis on communication and written skills, cultural analysis, and literary study.

AP Spanish IV (Language)

Prerequisites: A. Spanish III or Pre-AP Spanish III B. Contract Credit: One (1) state credit

This course follows the College Board Advanced Placement Program for the Spanish Language AP Exam. Students develop a command of Spanish with strong communicative skills that include accuracy and fluency. Students expand their vocabulary and comprehension through reading authentic sources in Spanish, such as newspapers, magazine articles, and literature. This course prepares students for the College Board Advanced Placement Spanish Language Examination.

AP Spanish V (Literature)

Prerequisites: A. AP Spanish IV (Language), AP Spanish IV Language (SNSP) or a score of 3, 4, or 5 on the AP Spanish Language Exam B. Contract Credit: One (1) state credit

This course follows the College Board Advanced Placement Program for the Spanish Literature AP Exam. Students are introduced to a comprehensive and diverse list of literature written in Spanish. Students will reflect, analyze, and discuss the novels, stories, and poetry in the Spanish language. This course prepares students for the College Board Advanced Placement Spanish Literature Examination.

communities).

Pre-AP Chinese III

Prerequisite: 2 credits in Chinese Credit: One (1) state credit

This course focuses on the same essential knowledge and skills as Chinese III with added emphasis on communication and written skills, cultural analysis, and literary study.

AP Chinese IV – Language

Prerequisite: 2 credits in Chinese (minimum) Credit: One (1) state credit

This course follows the College Board Advanced Placement Program for Chinese and is comparable to a university-level course in Mandarin Chinese. Students are immersed into the language and culture of the Chinese-speaking world, demonstrating their level of Chinese proficiency in the communicative modes (interpersonal, interpretive, and presentational) and the five goal areas (Communication, Cultures, Connections, Comparisons, and Communities).

AP Chinese V

Prerequisite: AP Chinese IV Credit: One (state)

Using age-appropriate activities, Level 5 students master novice tasks, expand their ability to perform intermediate tasks, and develop their ability to perform the tasks of the advanced language learner. The advanced language learner, when dealing with events of the concrete world, should:

- (A) participate fully in casual conversations in culturally appropriate ways;
- (B) explain, narrate, and describe in past, present, and future time when speaking and writing;
- (C) understand main ideas and most details of material on a variety of topics when listening and reading;
- (D) write coherent paragraphs;
- (E) cope successfully in problematic social and survival situations;
- (F) achieve an acceptable level of accuracy of expression by using knowledge of language components, including grammar; and
- (G) apply knowledge of culture when communicating.

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MATHEMATICS

Pre-AP Algebra I

Prerequisites: None Credit: One (state)

Students are provided with an in-depth study of Algebra. This course requires higher-level thinking, independent study, and research on special topics. Students in this course must show proficiency on the State End of Course examination.

Pre-AP Geometry

Prerequisites: A. Algebra I Credit: One (state)

Students are provided with an in-depth study of Geometry. This course requires higher-level thinking, independent study, and research on special topics.

Pre-AP Algebra II

Prerequisites: A. Algebra I Credit: One-half to One (state)

Students are provided with an in-depth study of Algebra II. This course requires higher-level thinking, independent study, and research on special topics.

Pre-AP Pre-Calculus A & B

Prerequisites: A. Algebra I B. Algebra II credit AND C. Geometry credit Credit: One-half to One (state)

Students are provided with an in-depth study of Pre-Calculus expanded to include opportunities for higher-level thinking, independent study, and research on special topics. This course meets the requirement for the 4th Mathematics on the Recommended High School Plan for graduation.

AP Statistics

Prerequisites: A. Algebra II Credit: One (state)

Students are introduced to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The topics for this course are divided into four broad conceptual themes: exploratory analysis, planning a study, probability, and statistical inference. This course is designed to prepare students for the Advanced Placement College Board Examination. This course meets the requirement for the 4th Mathematics on the Recommended High School Plan for graduation.

AP Calculus AB

Prerequisites: A. Pre-Calculus Credit: One (state)

Calculus provides an axiomatic development of the concepts of the derivative and the integral and their applications. This course also includes the study of limits and continuity. This course is designed to prepare students for the Advanced Placement College Board Examination. Upon successful performance on the AB Calculus Exam, a student may have the potential to earn the equivalent of Calculus I at the college level.

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SCIENCE

Pre-AP Biology I

Prerequisites: A. Grades 9-12 Credit: One (state)

This rigorous lab-oriented course adds independent research to in-depth study of cell biology, biochemistry, genetics, botany, physiology, zoology, and theories of life.

Pre-AP Chemistry I

Prerequisites: A. Grades 10-12 B. Algebra I Credit: One (state)

This rigorous lab-oriented course offers in-depth study of atomic structures, chemical bonding, formulas and equations, gas laws, acids and bases, solutions, qualitative analysis, and independent research.

AP Physics I

Prerequisites: A. Grades 10-12 B. Algebra I Credit: One (state)

This rigorous lab-oriented course discusses kinematics, dynamics with Newton's Laws, circular motions, universal law of gravitation, simple harmonic motion, impulse, linear momentum, collisions, work, energy, rotational motion, electrostatics, DC circuits, mechanical waves and sound. This is an algebra based course that follows the outline of the Advanced Placement Physics I exam.

AP Physics C

Prerequisites A. Grades 11-12 B. Chemistry I (may be concurrent) Credit: One (state)

C. Physics I OR AP Physics I and II D. Calculus (may be concurrent)

This rigorous lab-oriented course reviews the mechanics, electricity, and magnetism concepts of Physics I and applies them in more depth. This course also includes rotation, simple harmonic motion, capacitors, inductors, and Maxwell's equations. This is a calculus based course that follows the outline of the Advanced Placement Physics C exam.

AP Environmental Science

Prerequisites: A. Grades 11-12 B. Biology I C. Chemistry I (may be concurrent) Credit: One (state)

This lab-oriented Advanced Placement course includes the in-depth study of biotic and abiotic factors in habitats; ecosystems, and biomes; interrelationships among resources and an environmental system; sources and flow of energy through an environmental system; relationships between carrying capacity and changes in populations and ecosystems; and changes in environments. Students conduct prescribed field and laboratory investigations, use scientific methods during investigations, and analyze complex problems. This course that follows the outline of the Advanced Placement Environmental Science exam.

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SOCIAL STUDIES

Pre-AP World Geography

Prerequisites: A. Grades 9 – 12 Credit: One (state)

Provides a study of world geography, with emphasis on skills necessary for success in the Advanced Placement social studies program. The course provides opportunities for students to analyze and interpret data, communicate effectively, and improve study and test-taking skills.

AP Human Geography

Prerequisites: Grades 9 – 12 Credit: One (state) (substitutes for World Geography)

The purpose of the AP course in Human Geography is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students employ spatial concepts and landscape analysis to analyze human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice.

Pre-AP World History

Prerequisites: Grades 9 – 12 Credit: One (state)

Provides a study of world history, with emphasis on skills necessary for success in the Advanced Placement social studies program. The course provides opportunities for students to analyze and interpret data, communicate effectively, and improve study and test-taking skills.

AP World History

Prerequisites: Grades 10 – 12 Credit: One (state) (substitutes for World History)

The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts in different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in global frameworks and their causes and consequences, as well as comparisons among major societies.

AP United States History

Prerequisites: A. Grades 11 Credit: One (state)(substitutes for US History)

B. May be taken in lieu of regular United States History to meet graduation requirements.

The AP U.S. History 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 program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should 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.

AP United States Government and Politics

Prerequisites: A. Grades 11-12 B. U.S. History Credit: One-half (state)(substitutes for Government) C. May be taken in lieu of regular United States Government to meet graduation requirements.

United States Government and Politics is designed to give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics.

AP Macroeconomics

Prerequisites: A. Grades 11-12 B. US History Credit: One-half (state)(substitutes for Economics) C. May be taken in lieu of regular Economics to meet graduation requirements

The AP course in macroeconomics gives 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 students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics.

AP Psychology

Prerequisites: Grades 10 – 12 Credit: One-half (state)

The AP Psychology 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.

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TECHNOLOGY APPLICATIONS

AP Computer Science A

Prerequisite: Grades 10 – 12 Credit: One (state)

Computer Literacy required or Successful demonstration of Computer Literacy Skills required, Successful completion of Algebra & Geometry required, Concurrent enrollment in advanced level math recommended, IA prerequisite for IB Development of regular Computer Science IA & IB topics on an advanced level and an accelerated pace. Emphasis will be on algorithm development and preparation for the Advanced Placement A test. Students will be encouraged to take the A portion of the Advanced Placement test.

AP Computer Science Principles

Pre-AP Computer Science I

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