

ADVANCED PLACEMENT PROGRAM

District 200 offers multiple Advanced Placement (AP) courses. These courses are open to all students, but students are reminded that AP courses are college level courses, taught using college-like methods, with full college-level academic expectations. It is strongly advised that all students confer with counselors to determine if AP course selection is appropriate. Prerequisites are essential for Advanced Placement success because such experience provides the mastery level so important to the accelerated pace of these courses.

In addition to the college-level experience of such courses, the AP program offers students the opportunity to receive college credit. Credit is granted by the individual college or university, not by the high school. Furthermore, not all colleges and universities recognize the Advanced Placement program, its tests, and/or individual student test performance. Students/parents are advised to consult with the specific institution to ascertain its policy concerning Advanced Placement credit.

The high school experience for gifted students is heavily dependent on the Advanced Placement program. Students identified through the elementary and middle school gifted programs generally follow a program that includes advanced level courses, Advanced Placement courses, and enrollment in a sequence of courses including, Gifted Global Seminar, Advanced Placement U.S. History, and Gifted Junior Seminar.

Ordinarily, students sit for the Advanced Placement examinations after completion of the course. Nevertheless, students may also sit for Advanced Placement tests even if such a course was not completed or the course was not offered by the school. It is not uncommon for students to take Advanced Placement tests in connection with the highest level of high school courses completed. Advanced Placement teachers will announce information about the AP tests. Information is also included in the daily announcements in early spring. Tests are administered (at student expense) in May.

ADVANCED PLACEMENT ART STUDIO (A)

Length: Two or More Semesters

Grades: 11, 12

Prerequisite: Teacher Recommendation

Portfolio Review and at least three levels of art

This course is subject to a consumable fee.

Advanced Placement Art Studio is designed for the advanced art student capable of producing artistic material equivalent to that of an introductory college course in studio art (technically sound and creatively executed). Students have the option of producing work to complete one of three different portfolios – Drawing, 2-D Design (photography, graphic arts, mixed media), or 3-D Design. For those submitting a portfolio, instruction is highly individualized based on each student's interest and ability. A high level of independent responsibility is expected in and outside the classroom. National guidelines are adhered to in order to determine the number of required pieces.

ADVANCED PLACEMENT BIOLOGY (A)

Length: Two Semesters

Grades: 11, 12

Prerequisite: Biology, Chemistry, Physics or concurrent Physics

Qualifies for: Applied Technology Credit

This course is subject to a consumable fee.

Advanced Placement Biology is intended for students who are considering a major in biology, biotechnology or the health fields. The course includes content from three general areas: molecules and cells, heredity and evolution, and organisms and populations. Advanced Placement Biology is designed to be the equivalent of a college introductory biology course taken by biology majors. If successfully completed, it offers students the possibility to take upper-level biology courses, or courses for which biology is a prerequisite, as a college freshman.

ADVANCED PLACEMENT PROGRAM

ADVANCED PLACEMENT CALCULUS AB (A)

Length: *Two Semesters*

Grades: *11, 12*

Prerequisite: *Precalculus*

Qualifies for: *Applied Technology Credit*

Advanced Placement Calculus AB is a college-level calculus course designed for the student with a high ability in mathematics. The course follows the syllabus of the Advanced Placement Calculus AB and enables a student to test out of one semester of college calculus. The topics in this course include functions, graphs, and limits; derivatives and their applications; and the integral and its applications, and transcendental functions. The graphing calculator will be required and used extensively. A calculator from the TI-83/TI-84 series of calculators is required.

ADVANCED PLACEMENT CALCULUS BC (A)

Length: *Two Semesters*

Grades: *11, 12*

Prerequisite: *Precalculus (A) or teacher recommendation*

Qualifies for: *Applied Technology Credit*

Advanced Placement Calculus BC is a college-level calculus course designed for the student with high mathematical ability. The course follows the syllabus of the Advanced Placement Calculus BC. The topics in this course include the rate of change of a function, limits, derivatives of algebraic functions, applications of the derivative, integration, applications of the definite integral, transcendental functions, infinite series, and differential equations. The graphing calculator will be required and used extensively. A calculator from the TI-83/TI-84 series of calculators is required. Advanced Placement Calculus BC enables a student the opportunity to test out of two semesters of college Calculus.

ADVANCED PLACEMENT CHEMISTRY (A)

Length: *Two Semesters*

Grades: *11, 12*

Prerequisite: *Chemistry, Physics and Algebra 2 & Trig, concurrent enrollment in Precalculus*

Qualifies for: *Applied Technology Credit*

This course is subject to a consumable fee.

Advanced Placement Chemistry is the equivalent of a first year college chemistry course. It is a rigorous

laboratory-based course that includes topics such as the structure of matter, chemical reactions, energy, kinetics, equilibrium and electrochemistry. Students should be prepared to do hands-on laboratory activities, complete daily homework, work cooperatively with others, uses scientific reasoning and problem solving. There is an emphasis on independent thinking.

ADVANCED PLACEMENT COMPUTER SCIENCE A (A)

Length: *Two Semesters*

Grades: *11, 12*

Prerequisite: *Computer Programming or Mobile Makers*

Qualifies for: *Math or Applied Technology Credit*

Advanced Placement Computer Science A is a continuation of Computer Programming. It follows the syllabus of the Advanced Placement Computer Science A curriculum. The course is built around the development of computer programs or parts of programs that correctly solve a given problem. Additional lab time may be needed to complete the course requirements.

ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION (A)

Length: *Two Semesters*

Grades: *11, 12*

Prerequisite: *Sophomore English*

The Advanced Placement English Language and Composition course serves as an introduction to the equivalent of the freshman college course in composition and/or rhetoric. AP Language and Composition is a college-level course, which requires students to complete written assignments representative of higher levels of synthesis of non-fiction material, including graphics and other visual forms through the study of American Literature. The course offers additional instruction in argumentation and teaches the skills of synthesizing, summarizing, paraphrasing, quoting, and citing secondary source material. Students choosing Advanced Placement English Language and Composition should be interested in studying and writing various kinds of analytic and persuasive essays on a variety of topics. Students are expected to take the AP exam in the second semester.

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ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION (A)

Length: Two Semesters

Grade: 12

Prerequisite: Junior English

The Advanced Placement English Literature and Composition course is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. The course requires intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit.

Writing is also an integral part of the Advanced Placement English Literature and Composition course, for the Advanced Placement Examination is weighted toward student writing about literature. Writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays.

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE (A)

Length: Two Semesters

Grades: 11, 12

Prerequisite: Biology, Chemistry, Physics or concurrent Physics, and Algebra

The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science. It is intended to enable students to undertake, as first-year college students, a more advanced study of topics in environmental science. This course will 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 or preventing them.

ADVANCED PLACEMENT EUROPEAN HISTORY (A)

Length: Two Semesters

Grades: 11, 12

Prerequisite: U. S. History, teacher recommendation

Advanced Placement European History covers the events and movements that occurred in Europe during the time period 1450 to the present. The events and movements of the past are explored through the themes of cultural and intellectual development, political and diplomatic events, and social and economic movements. Students will gain experience analyzing historical documents and expressing their historical understanding in writing. Students will be prepared for and should take the Advanced Placement test in European History.

ADVANCED PLACEMENT FRENCH LANGUAGE (A)

Length: Two Semesters

Grade: 12

Prerequisite: French 4

This course is subject to a consumable fee.

Advanced Placement (AP) French Language is designed to allow students to increase their proficiency level in each of the four target areas: listening, speaking, reading, and writing. Students will review all basic verb tenses and grammar focusing on more advanced study of each. Vocabulary and grammar will be connected to a theme of study based on the six themes determined by the AP College Board. At the end of this course students will be prepared to sit for the French Advanced Placement exam to earn college credit. Mature study habits and active participation are essential.

ADVANCED PLACEMENT HUMAN GEOGRAPHY (A)

Length: Two Semesters

Grades: 9, 10, 11, 12

Prerequisite: Teacher Recommendation

AP Human Geography will introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. Students will be provided the opportunity to take the Advanced Placement exam.

ADVANCED PLACEMENT PROGRAM

ADVANCED PLACEMENT HUMAN GEOGRAPHY (A) (eLo Online Course)

Length: Two Semesters

Information about this online course can be found in the Expanded Learning Opportunities (eLo Online Courses) Section of this catalog.

ADVANCED PLACEMENT MACROECONOMICS (A)

Length: One Semester

Grades: 11, 12

Prerequisite: AP Microeconomics

Qualifies for: Applied Technology Credit

Advanced Placement Macroeconomics is designed 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 determination, and also develops familiarity with economic performance measures, economic growth, and international economics. Students will be prepared for and should take the Advanced Placement test in Macroeconomics.

ADVANCED PLACEMENT MICROECONOMICS (A)

Length: One Semester

Grades: 11, 12

Prerequisite: None

Qualifies for: Applied Technology Credit and Consumer Education Requirement

Advanced Placement Microeconomics provides a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the larger economic system. It places primary emphasis on the nature and functions of product markets, and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. Students will be prepared for and should take the Advanced Placement test in Microeconomics.

ADVANCED PLACEMENT PHYSICS C (A)

Length: Two Semesters

Grades: 11, 12

Prerequisite: Biology, Chemistry, Physics, Calculus, concurrent registration in Calculus or consent of instructor

Qualifies for: Applied Technology Credit

This course is subject to a consumable fee.

Advanced Placement Physics C ordinarily forms the first part of the college sequence that serves as the foundation in physics for students majoring in the physical sciences or engineering. The sequence is parallel to or preceded by mathematics courses that include calculus. Methods of calculus are used wherever appropriate in formulating physical principles and in applying them to physical problems. Strong emphasis is placed on solving a variety of challenging problems, some requiring calculus.

ADVANCED PLACEMENT PSYCHOLOGY (A)

Length: Two Semesters

Grades: 11, 12

Prerequisite: None

Advanced Placement Psychology is designed for students who wish to study human behavior and mental processes at a level that approximates an introductory college course. This course exposes students to a wide range of concepts, research findings, and psychological theories while emphasizing application (demonstration, discussion, and projects) so the students can see how these relate to their own lives. Topics include the historical development of the schools of psychology, research methods; the biological determinants of behavior, states of consciousness, sensation and perception, conditioning and learning, cognition and memory, testing individual differences, normal and abnormal personality development, different types of therapy, and social psychology.

Students who take Psychology (I) may not enroll in Advanced Placement Psychology. Students who complete this course will be prepared for and should take the Advanced Placement Psychology exam.

ADVANCED PLACEMENT PROGRAM

ADVANCED PLACEMENT SPANISH LANGUAGE (A)

Length: Two Semesters

Grade: 12

Prerequisite: Spanish 4

This course is subject to a consumable fee.

Advanced Placement (AP) Spanish Language is designed to allow students to increase their proficiency level in each of the four target areas: listening, speaking, reading, and writing. Students will review all basic verb tenses and grammar focusing on more advanced study of each. Vocabulary and grammar will be connected to a theme of study based on the six themes determined by the AP College Board. At the end of this course students will be prepared to sit for the Spanish Advanced Placement exam to earn college credit. Mature study habits and active participation are essential.

ADVANCED PLACEMENT STATISTICS (A)

Length: Two Semesters

Grades: 11, 12

Prerequisite: Precalculus or concurrent Precalculus and Teacher Recommendation

Qualifies for: Applied Technology Credit

Advanced Placement Statistics is an introductory, non-calculus-based course in statistics. It will introduce students to the concepts and tools for collecting, analyzing, and drawing conclusions from data. Four broad conceptual themes will be covered: 1) exploratory analysis of data, 2) planning a study, 3) probability, and 4) statistical inference. The graphing calculator (use of a College Board Approved graphing calculator is an expectation for the Advanced Placement Test) will be used throughout the course. Students who complete this course will be prepared for and should take the Advanced Placement Statistics exam.

ADVANCED PLACEMENT UNITED STATES GOVERNMENT AND POLITICS (A)

Length: One Semester

Grades: 11, 12

Prerequisite: U. S. History

Advanced Placement United States Government and Politics is an introduction to the nature of government and the dynamics of American politics. Included are the origins of American Democracy, the federal system, its political party base, local politics, and objectives of political action. The student will actively participate in the political process and have an opportunity to listen to political speakers in the classroom. Students successfully completing this course will meet graduation requirements in representative government, proper use of the flag, and methods of voting. This course is intended for the advanced student. Students who complete this course will be prepared for and should take the Advanced Placement Government and Politics (U.S.) exam.

ADVANCED PLACEMENT UNITED STATES HISTORY (A)

Length: Two Semesters

Grades: 11, 12

Prerequisite: World Civilizations (I, A) or AP Human Geography

Advanced Placement U. S. History is designed to develop analytical and critical thinking skills as students deal with the problems and events in U. S. History. Students should learn to assess historical materials or information and make valid interpretations. The course is designed to develop skills necessary to arrive at conclusions based on informed judgments. Students will be taught that, in forming conclusions, all evidence will have to be presented in a clear and persuasive manner. The information may be presented in either oral or written exercises. The course may involve research, extensive reading, and in-depth written assignments. It will cover U. S. History beginning with the period of exploration and discovery and concludes with recent history. Students will be provided with the opportunity to take the advanced placement exam.