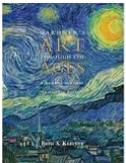




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MPS AP Course Offerings

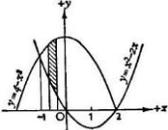
Advanced Placement Course	Course Description	Prerequisite Courses	2013-2014 High School offering course
<p>AP Art History</p> 	<p>The AP Art History course should engage students at the same level as an introductory college art history survey. Such a course involves critical thinking and should develop an understanding and knowledge of diverse historical and cultural contexts of architecture, sculpture, painting and other media. In this course, students examine and critically analyze major forms of artistic expression from the past and the present from a variety of cultures.</p>	<p>none</p>	<p>Milwaukee High School of the Arts</p>
<p>AP Studio Art Drawing</p> 	<p>AP Studio Art is designed for students who are seriously interested in the study of art. AP Studio Art students submit portfolios for evaluation in the beginning of May. The AP Studio Art course addresses the quality of the student's work, their concentration on a particular interest or visual problem and the need for breadth of experience in the formal, technical and expressive means of the artist. The Drawing portfolio is designed to address a very broad interpretation of drawing issues and media. Light and shade, line quality, rendering of form, composition, surface manipulation, and illusion of depth are drawing issues that can be addressed through a variety of means.</p>	<p>Art Foundations plus one advanced art course</p>	<p>Milwaukee High School of the Arts Pulaski High School</p>
<p>AP Studio Art 2-D / 3-D</p> 	<p>AP Studio Art is designed for students who are seriously interested in the study of art. AP Studio Art students submit portfolios for evaluation in the beginning of May. The AP Studio Art course addresses the quality of the student's work, their concentration on a particular interest or visual problem and the need for breadth of experience in the formal, technical and expressive means of the artist. The 2-D portfolio is intended to address two-dimensional (2-D) design issues. Design involves purposeful decision making about how to use the elements and principles of art in an integrative way. The 3-D portfolio is intended to address sculpture issues. Design involves purposeful decision making about using the elements and principles of art in an integrative way. In the 3-D Design Portfolio, students are asked to demonstrate their understanding of design principles as they relate to depth and space.</p>	<p>Art Foundations plus one advanced art course</p>	<p>Community High School Milwaukee High School of the Arts Pulaski High School South Division High School</p>
<p>AP Biology</p> 	<p>The AP Biology course is designed to be the equivalent of a two-semester college introductory biology courses. This course is taken by students after successful completion of a first course in high school biology and chemistry. It aims to provide students with the conceptual framework, factual knowledge and analytic skills necessary to deal critically with the rapidly changing science of biology. The AP Biology curriculum is focused around four big ideas; evolution, cellular processes, information transfer and interactions. The course will focus on inquiry-based laboratory work with an emphasis on science practices in both lab and non-lab activities. The textbooks used for AP Biology are those used by college biology majors. The labs done by AP students are equivalent to those done by college students.</p>	<p>A or B in biology A or B in Chemistry A or B in Algebra Two years of math</p>	<p>Carmen High School of Science & Tech Bradley Tech High School Milwaukee High School of the Arts Morse-Marshall Riverside University High School Washington HS of Info & Tech Wisconsin Conservatory of Lifelong Learning</p>

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AP Calculus AB 	<p>Calculus AB is primarily concerned with developing the students' understanding of the concepts of calculus and providing experience with methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. Broad concepts and widely applicable methods are emphasized. The focus of the course is neither manipulation nor memorization of an extensive taxonomy of functions, curves, themes or problem types. Technology should be used regularly by students and teachers to reinforce the relationships among the multiple representations of functions, to confirm written work, to implement experimentation, and to assist in interpreting results.</p>	Algebra, Geometry, Trigonometry, Analytic Geometry, & Elementary Functions	Alexander Hamilton High School Carmen High School of Science & Tech Milwaukee High School of the Arts Milwaukee School of Languages Riverside University High School South Division High School
AP Calculus BC	<p>Calculus BC is an extension of Calculus AB rather than an enhancement; common topics require a similar depth of understanding. Both courses are intended to be challenging and demanding. Broad concepts and widely applicable methods are emphasized.</p>	Successful completion of AP Calculus AB	Riverside University High School
AP Chemistry 	<p>The AP Chemistry course addresses this challenge by focusing on a model of instruction which promotes enduring, conceptual understandings and the content that supports them. This approach enables students to spend less time on factual recall and more time on inquiry-based learning of essential concepts, and helps them develop the reasoning skills necessary to engage in the science practices used throughout their study of AP Chemistry. Students will also develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. The result will be readiness for the study of advanced topics in subsequent college courses — a goal of every AP course.</p>	High School Chemistry, Algebra	Bay View High School Milwaukee High School of the Arts Morse-Marshall Riverside University High School Wisconsin Conservatory of Lifelong Learning
AP Economics Macro 	<p>The purpose of the AP course in macroeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. The 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.</p>		Riverside University High School
AP Economics Micro 	<p>The purpose of the AP course in microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the 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.</p>		Riverside University High School

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<p>AP Music Theory</p> 	<p>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 achievement of this goal may be best promoted by integrated approaches to the student’s development of aural, sight-singing, written, compositional and analytical skills. In an AP Music Theory course, students should be required to read, notate, write, sing, and listen to music. The development of aural skills is a primary objective of the AP Music Theory course. Throughout the course, students should listen to musical works attentively and analytically, developing their musical memory and their ability to articulate responses to formal, stylistic, and aesthetic qualities of the works. Performance — using singing, keyboard, and students’ primary performance media — should also be a part of the learning process.</p>	<p>Upper level Music and Music Theory Classes</p>	<p>Milwaukee High School of the Arts</p>
<p>AP English Language and Composition</p> 	<p>AP Language and Composition focuses on critical reading and writing. Equivalent to a college freshman writing course, the class teaches the student to read complex, nonfiction texts with understanding and to write effective prose of sufficient substance to appeal to a mature audience. As readers, the students will read nonfiction prose representing a variety of historic periods and a variety of disciplines, such as sports, politics, travel, philosophy, popular culture, business, science, and art and a variety of genre, such as diaries, biographies, newspaper columns, satires, histories, cartoons, letters, and, of course, essays. As the students read these texts, they will be asked to annotate, outline, and summarize the text, to critically examine the writer’s reasoning, to identify rhetorical choices, and to explain how the writer achieved his or her desired effect. As part of this analysis, the student will address any graphics or nonlinguistic representations that frequently accompany a text.</p>	<p>A or B in at least two years of high school English</p>	<p>Alexander Hamilton High School Bay View High School Carmen High School of Science & Tech Community High School Harold Vincent High School Bradley Tech High School Milwaukee High School of the Arts Morse-Marshall North Division High School Riverside University High School South Division High School Washington HS of Info & Tech</p>
<p>AP English Literature and Composition</p> 	<p>The AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature – fiction, novels, short stories and poetry. Through the close reading of varied, selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work’s structure, style, and themes as well as such smaller scale elements as the use of figurative language, imagery, symbolism, and tone. This year long course will introduce dedicated students to university level assignment and concepts while preparing them for success on the Advanced Placement Literature and Composition exam.</p>	<p>A or B in at least two years of high school English</p>	<p>Advanced Language & Academic Studies Alexander Hamilton High School Alliance High School Audubon Bay View High School Harold Vincent High School James Madison Academic Campus Bradley Tech High School Milwaukee High School of the Arts Milwaukee School of Languages Morse-Marshall Pulaski High School Riverside University High School South Division High School Washington HS of Info & Tech WI Conservatory of Lifelong Learning</p>

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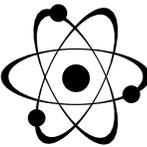
Advanced Placement Course	Course Description	Prerequisite Courses	2013-2014 High School offering course
AP Environmental Science 	<p>The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science. Unlike most other introductory-level college science courses, environmental science is offered from a wide variety of departments, including geology, biology, environmental studies, environmental science, chemistry, and geography. The goal of the AP Environmental Science 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 or preventing them.</p>	Life Science Physical Science Algebra	Milwaukee High School of the Arts Riverside University High School
AP French Language and Culture 	<p>The AP French Language and Culture 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. Students should learn language structures in context and use them to convey meaning.</p> <p>The AP French Language and Culture course strives to promote both fluency and accuracy in language use and not to overemphasize grammatical accuracy at the expense of communication. In order to best facilitate the study of language and culture, the course is taught in the target language. The AP French Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts.</p>	Completion of upper level French	Milwaukee School of Languages
AP German Language and Culture 	<p>The AP German Language and Culture 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. Students should learn language structures in context and use them to convey meaning. The AP German Language and Culture course strives to promote both fluency and accuracy in language use and not to overemphasize grammatical accuracy at the expense of communication. In order to best facilitate the study of language and culture, the course is taught in the target language.</p>	Completion of upper level German	Milwaukee School of Languages
AP Government and Politics United States 	<p>A well-designed AP course in United States Government and Politics will 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. While there is no single approach that an AP United States Government and Politics course must follow, students should become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes. Certain topics are usually covered in all college courses.</p>	Successful completion of high school social studies classes	Harold Vincent High School James Madison Academic Campus Bradley Tech High School Milwaukee High School of the Arts Morse-Marshall Riverside University High School South Division High School

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AP Physics B 	<p>The Physics B course includes topics in both classical and modern physics. The basic ideas of calculus may be introduced in connection with physical concepts, such as acceleration and work. Understanding of the basic principles involved and the ability to apply these principles in the solution of problems should be the major goals of the course. The course should utilize guided inquiry and student-centered learning to foster the development of critical thinking skills. Physics B should provide instruction in each of the following five content areas: Newtonian mechanics, fluid mechanics and thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics.</p>	<p>Successful completion of upper level science Algebra Trigonometry</p>	<p>Milwaukee High School of the Arts</p>
AP Psychology 	<p>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.</p>	<p>Successful completion of social studies classes</p>	<p>Alexander Hamilton High School Carmen High School of Science & Tech Milwaukee High School of the Arts Milwaukee School of Languages Morse-Marshall Riverside University High School</p>
AP Spanish Language And Culture 	<p>The AP Spanish Language and Culture 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. Students should learn language structures in context and use them to convey meaning. In standards-based world language classrooms, the instructional focus is on function and not the examination of irregularity and complex grammatical paradigms about the target language. Language structures should be addressed inasmuch as they serve the communicative task and not as an end goal unto themselves. The AP Spanish Language and Culture course strives to promote both fluency and accuracy in language use and not to overemphasize grammatical accuracy at the expense of communication. The course is taught in the target language. The AP Spanish Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts.</p>	<p>Completion of upper level Spanish or native speaker</p>	<p>Advanced Language & Academic Studies Alexander Hamilton High School Carmen High School of Science & Tech Milwaukee School of Languages Pulaski High School Riverside University High School South Division High School</p>
AP Spanish Literature and Culture 	<p>The AP Spanish Literature and Culture course is designed to provide students with a learning experience equivalent to that of an introductory college course in literature written in Spanish. The course introduces students to the formal study of a representative body of texts from Peninsular Spanish, Latin American, and U.S. Hispanic literature. The course provides opportunities for students to demonstrate their proficiency in Spanish across the three modes of communication (interpersonal, interpretive, and presentational) and the five goal areas (communication, cultures, connections, comparisons, and communities). The aims of the course are to provide students with ongoing and varied opportunities to further develop their proficiencies across the full range of language skills — with special attention to critical reading and analytical writing — and to encourage them to reflect on the many voices and cultures included in a rich and diverse body of literature written in Spanish.</p>	<p>AP Spanish Language or native speaker</p>	<p>Alexander Hamilton High School Carmen High School of Science & Tech Milwaukee School of Languages Riverside University High School</p>

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<p>AP Statistics</p> 	<p>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 exposed to four broad conceptual themes:</p> <ol style="list-style-type: none"> 1.Exploring Data: Describing patterns and departures from patterns 2.Sampling and Experimentation: Planning and conducting a study 3.Anticipating Patterns: Exploring random phenomena using probability and simulation 4.Statistical Inference: Estimating population parameters and testing hypotheses 	<p>Two years of Algebra</p>	<p>Harold Vincent High School Riverside University High School</p>
<p>AP United States History</p> 	<p>AP United States History is a challenging course that is meant to be the equivalent of a freshman college course. It is a two semester survey of American history from the migration of Native Americans through contemporary trends and events. Solid reading and writing skills, along with a willingness to devote considerable time to homework and study, are necessary to succeed. Emphasis is placed on critical and analytical thinking skills, essay writing, and on interpretation of primary and secondary sources, including documents, maps, statistics, and pictorial and graphic evidence of historical events.</p>	<p>A or B in previous Successful completion of social studies class</p>	<p>Alexander Hamilton High School Carmen High School of Science & Tech Harold Vincent High School James Madison Academic Campus Bradley Tech High School Milwaukee High School of the Arts Milwaukee School of Languages Morse-Marshall Pulaski High School Riverside University High School Washington HS of Info & Tech Wisconsin Conservatory of Lifelong Learning</p>
<p>AP World History</p> 	<p>The AP World History course content is structured around the investigation of five course themes and 19 key concepts in six different chronological periods, from approximately 8000 B.C.E. to the present. The key concepts support the investigation of historical developments within a chronological framework, while the course themes allow students to make crucial connections across the six historical periods and across geographical regions.</p> <p>The AP World History course develops students' capacity and ability to think and reason in a deeper, more systematic way, better preparing them for subsequent college courses.</p>	<p>Successful completion of social studies class</p>	<p>Milwaukee High School of the Arts Milwaukee School of Languages Morse-Marshall Pulaski High School Riverside University High School</p>