

### **AP United States History**

The course is a survey of our country's history from 1607 to the present, using a college level text and requiring college-level writing and discussion. 9<sup>th</sup> Graders may take this course to meet their U.S. history graduation requirement. 9<sup>th</sup> Graders who take this course should have had Advanced United States History in Middle School.

### **AP Psychology**

In AP Psychology students learn about the systematic and scientific study of the behavioral and mental processes of humans and animals. The course covers thirteen prescribed topics related to psychological facts, principles and the phenomena associated with each of the major subfields within psychology.

### **AP World History**

The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts that brought about change in all human societies. Students trace major historical issues such as gender relations, cultural and economic shifts, and imperialism over time and all over the world. The course focuses on broad conceptual themes.

### **AP Physics 1**

Students will develop a deep understanding of foundational principles of physics in classical mechanics and modern physics by applying these principles to complex physical situations that combine multiple aspects of physics rather than present concepts in isolation. Discuss, confer, and debate with classmates to explain a physical phenomenon investigated in class. Design and conduct inquiry-based laboratory investigations to solve problems through first-hand observations, data collection, analysis and interpretation.

### **AP Computer Science Principles**

This course offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving.

### **AP Computer Science JAVA**

The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language.

### **AP Italian**

The AP Italian Language and Culture course is designed to promote proficiency in Italian and to enable you to explore culture in contemporary and historical contexts.

- Focuses on communication
- Encourages cultural awareness
- Incorporates themes

Instructional content will reflect interests shared by you and your teacher (the arts, current events, literature, sports, and so forth).

**AP Studio Art 2D** is an advanced placement course that is similar to **AP Studio Art Drawing**. It deals with two-dimensional applications such as graphic design, photography, weaving, and collage. As a contrary to **AP Studio Art Drawing**, focus is applied on the design itself instead of the composition of the artwork.

# WHEATON HIGH SCHOOL



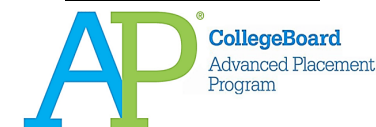
## Advanced Placement

AP classes are an important part of every student's high school career. Wheaton High School proudly offers over 20 AP courses in a variety of different areas of interest. We currently have over 800 students accepting the challenge and look forward to welcoming many more in the future.

**Jeanne Salvado**  
AP Coordinator

[Jeanne\\_T\\_Salvado@mcpsmd.org](mailto:Jeanne_T_Salvado@mcpsmd.org)

<http://montgomeryschoolsmd.org/schools/wheatonhs/>



### **AP French Language**

AP French Language cultivates an authentic environment in which you learn to express yourself with ease, and communicate freely to your peers. It is a hands-on course wherein you will taste, smell, hear, and see elements that make up the Francophone world. In addition, you will receive extensive preparation and training for the Advanced Placement exam.

### **AP Spanish Language**

In AP Spanish language class students are immersed in the language exclusively. This class prepares students to speak in front of an audience, enhance grammar and vocabulary skills, write essays using written and additive sources, develop various business letters, and updates students with world issues in an academic setting. AP Spanish language class is also packed with super fun activities where students learn about the Spanish speaking culture with native speaker instructors.

### **AP Spanish Literature**

In AP Spanish Literature students lose their fear of poetry and classical readings. This course instills in students the love and passion for literature. Class time consists of discussions, analysis, and fun vocabulary acquisition through group work, role playing, videos, and power point presentations.

### **AP US Government and Politics**

This course provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behavior. In addition, they complete a political science research or applied civics project.

### **AP Calculus AB**

This course is designed for students who wish to obtain credit for one semester of college calculus. Topics studied include limits, continuity, derivatives, and integrals of algebraic and transcendental functions, their applications, and elementary differential equations.

### **AP Calculus BC**

The AP Calculus BC course covers all of the topics in the AB course, as well as convergence tests for series, Taylor and Maclaurin series, vectors, polar, and parametric functions.

### **AP Statistics**

This course is a non-calculus based college course in introductory statistics. Students will explore analysis of data using both graphical and numerical techniques. We will generate conjectures about the relationships between variables. We will also distinguish between association and causation. Students are expected to produce appropriate models using probability, simulation, and statistical inference.

### **AP English Language and Composition**

AP English Language and Composition is for students who want to become skilled readers of prose written in a variety of ways, and who want to become skilled writers who compose for a variety of purposes. One goal of the course is to teach students to read, explore ideas, consider strategies, analyze, and write in a manner recognized by colleges and universities. Another is to teach students to complete college-level research.

### **AP English Literature and Composition**

One focus is the study of major authors, periods, genres, or themes; the reading typically concentrates on imaginative literature—poetry, fiction, and drama. Another key element is the continued development of the writing skills necessary to be successful at the college or university level.

### **AP Physics C**

Knowledge of algebra and basic trigonometry is required for the course; 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. Consequently, the course should utilize guided inquiry and student-centered learning to foster the development of critical thinking skills.

### **AP Biology**

The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process. The ongoing information explosion in biology makes these goals even more challenging. Primary emphasis in an AP Biology course should be on developing an understanding of concepts rather than on memorizing terms and technical details.

### **AP Chemistry**

The AP Chemistry course is designed to be taken only after the successful completion of a first course in high school chemistry. This course is designed to be the equivalent of the general chemistry course usually taken during the first college year.

### **AP Human Geography**

The AP Human Geography course is equivalent to an introductory college-level course in human geography. The course introduces 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 to examine socioeconomic organization and environmental consequences. They also learn about the methods and tools geographers use in their research and applications.