The Advanced Placement™ (AP) program at Woodinville High School is a cooperative educational program created by the College Board that offers college-level curricula, examinations, and possible college credit while students pursue their education at a high school known for academic and extra-curricular excellence and accommodating and meeting the needs of its students.

For Students Who Want a Challenge
- Rigorous and complex subject matter in over 30 courses, across a wide spectrum of subject areas, is presented in a discussion, lecture, and testing format.
- Covering more material than traditional courses, AP classes require college-level research, writing, and analysis.
- Challenging as introductory college courses, AP coursework experience can ease a student’s academic transition from high school to first-year college student.
- AP classes attract and challenge highly motivated students wishing to excel academically and also serve the highly capable student in the high school setting.
- AP students can explore individual strengths in an environment that supports academic achievement in all areas and disciplines across seven different content departments.

High Standards
- The AP Program supports educational reform focused on increased standards, testing, and mastery certification; striving to raise the bar in this complex and competitive 21st century work environment and global economy.
- The work is challenging, but the reward is great, and AP classes signal to admissions officers that a student is ready for college-level work.
- The AP Program at WHS provides an opportunity for students to take classes that have all the rigor and expectations found in the college setting while allowing these students to take advantage of the diversity of activities and leadership positions available at a large comprehensive high school.

Taught by Qualified Staff
- The faculty at Woodinville High School, many with master’s degrees, doctorates, and national board certifications has enthusiastically embraced AP as a quality program that allows them to teach advanced material to interested and thoughtful students.
- All teachers of AP courses must exhibit thorough subject knowledge and attend AP seminars and summer workshops to help ensure the highest efficacy possible.
- The AP Program has been built on the partnership and commitment between students and educators from both secondary schools and higher education. College faculty review every AP teacher’s course syllabus.

A Conscious Choice
- Woodinville High School has chosen the academically rigorous AP Program because it is designed to prepare our students to succeed and prosper in college, university, or vocational settings in preparation for a future career.
- For the motivated learner, the AP environment offers a clear perspective on university methods and expectations, and upon passage of the spring exams may lessen the burden of first-year college tuition expenses.
- The AP Program provides the tools needed to succeed in college and meets the needs of both the dedicated student and the concerned parent.
Based on two yearlong AP courses, AP Seminar and AP Research, students receive the AP Seminar and Research Diploma. Students must pass an exam to receive the diploma. The exam results give AP teachers and administrators important payoff to students in terms of college credit and advanced placement. The exam grade provides an important opportunity for courses and examinations-when taken as part of a course, an AP course exam gives students the chance to earn college credit or advanced placement. Students can also take the exam as a stand-alone exam to demonstrate their understanding of the course material.

The second year of the program, students take the AP Research course where they explore various research methods and complete an independent research project. The project can build on a topic, problem or issue covered in AP Seminar or on a brand new topic of their own choosing. At the end of the project, students submit an academic paper and present and defend their research findings. These components contribute to the overall AP Research score. There is no end-of-course exam.

If a student earns scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choice, they’ll receive the AP Capstone Diploma. If a score of 3 or higher is earned in AP Seminar and AP Research, students receive the AP Seminar and Research Certificate.

**ARTS – VISUAL & PERFORMING**

**APA150 – AP STUDIO ART**
Length/Credit: Full Year/1 credit  
Grades: 10, 11, 12  
Diploma Category: The Arts  
Prerequisite(s): Advanced Art or Art Teacher permission required with presentation of Art Portfolio  
Other Info: Students submit a portfolio for evaluation in the spring.

The AP Studio Art program makes it possible for highly motivated high school students to do college level artwork. During this yearlong course each student will submit a portfolio of 24 works for evaluation at the end of the semester and will prepare their portfolios throughout the year. AP Studio teaches the development of concepts, composition, and drawing techniques to create a portfolio for college entrance. A concentration on works based on the student’s individual interest in a particular area, and focuses on the process of investigation, growth, and discovery. Students will focus on the 2-D portfolio options incorporating media such as Drawing, Painting, Collage, Printmaking, and Mixed Media Artwork. This class may be repeated multiple times.
### APA155 - AP STUDIO ART: 2-D Design Portfolio

**Length/Credit:** Full Year/1 Credit  
**Grades:** 11, 12  
**Diploma Category:** The Arts  
**Prerequisite(s):** AP Studio Art Drawing, Advanced Art or Art Teacher permission required with presentation of Art Portfolio  
**Other Info:** Students submit a portfolio for evaluation in the spring.

This yearlong course is designed for the serious art student who is interested in the pursuit of college level artistic development and in art as a possible career. AP Studio Art: 2-D Design is an intensive investigation of art concepts, media, and techniques after completing the AP Studio Art: Drawing Portfolio (and optionally after taking Advanced Art). This class will offer students the opportunity to further master their skills in communicating concepts visually, developing their artistic voice, creating strong compositions and increasing techniques in various art media that emphasize the effective utilization of the Principles of Art and Design. Students will submit a portfolio to the College Board in the spring which emphasizes an innovative Concentration of work and showcases a variety of diverse art making techniques.

### MUS350 - AP MUSIC THEORY

**Length/Credit:** Full Year/1 Credit  
**Grades:** 9, 10, 11, 12  
**Diploma Category:** The Arts  
**Other Info:** Students are encouraged to take the AP Music Theory test in the spring.

The AP Music Theory class will be offered to all students who wish to further their understanding of reading music, as well as listening to music. This class focuses on music literacy, and goes in-depth on how the formulation of written music progressed throughout history. If you appreciate wonderful music, wish to become a better musician, or want to sign up for an AP class that involves listening to music, then this is the class for you. We will practice analyzing sheet music, reading musical notation, listening and responding to music, and even compose original music.

### BUSINESS

#### BEC300/BEC301 - AP MACRO/MICRO ECONOMICS

**Length/Credit:** Full Year/1 Credit  
**Grades:** 9, 10, 11, 12  
**Diploma Category:** Career & Technical Education  
**Other Info:** Students are encouraged to take the AP tests (Microeconomics AND Macroeconomics) in the spring.

Students will start the year learning AP Macroeconomics, which is the study of the economy as a whole. It includes topics such as: International trade and exchange rates and how interest rates, taxes and government policies influence investment, unemployment, inflation and economic growth. Second semester focuses on AP Microeconomics, which is the study of how businesses, individual consumers, and governments interact in the marketplace. It includes topics such as: supply and demand, taxes, business costs (revenue, variable/fixed costs, profit). AP Economics is a fast-paced, challenging and exciting course for any motivated student. Students who are successful in this course will be prepared to take BOTH the AP Microeconomics and AP Macroeconomics exams in the spring.

### ENGLISH

#### ENG155 - PRE-AP ENGLISH 9

**Length/Credit:** Full Year/1 Credit  
**Grade:** 9  
**Diploma Category:** English 9  
**Prerequisite:** Completion of Algebra II or Algebra II-Geometry

Our most common choice for English 9, this course builds upon previous learning of the Common Core State English/Language Arts (E/LA) Standards in middle school and establishes the skills necessary for a successful progression of learning for advanced high school E/LA course work. Students will read a variety of texts including but not limited to: non-fiction, novels, plays, poetry, and short fiction. Students will write analytical, persuasive, and narrative essays.

#### ENG255 - PRE-AP ENGLISH 10

**Length/Credit:** Full Year/1 Credit  
**Grade:** 10  
**Diploma Category:** English 10  
**Prerequisite:** Completion of Algebra II or Algebra II-Geometry

This advanced class prepares sophomores for rigorous Advanced Placement programs. Students will read a variety of texts including but not limited to: non-fiction, novels, plays, poetry, and short fiction. Students will write analytical, persuasive, and narrative essays.

#### ENG47S - AP ENGLISH LANGUAGE AND COMPOSITION

**Length/Credit:** Full Year/1 Credit  
**Grades:** 11, 12  
**Diploma Category:** English 11, 12  
**Other Info:** Students are encouraged to take the AP English Language & Composition test in the spring.

Advanced Placement Language and Composition is a yearlong college level course that culminates in the AP Language and Composition examination. Students will cultivate critical thinking by reading a wide variety of fiction and non-fiction texts, and will learn the basic elements of rhetoric. The focus of study will be the literal what of the text, the techniques of style underlying the how, and the timeless, universal connections of why. AP English Language and Composition and AP English Literature and Composition form a two-year program of study and should be taken in sequence. While this is a recommendation, AP English Language and Composition is open to students who are wishing to challenge themselves in a college level course even though they do not intend to take AP English Literature and Composition.

#### ENG480 - AP ENGLISH LITERATURE AND COMPOSITION

**Length/Credit:** Full Year/1 Credit  
**Grades:** 11, 12  
**Diploma Category:** English 11, 12  
**Other Info:** Students are encouraged to take the AP English Literature & Composition test in the spring.

Advanced Placement Literature and Composition is a yearlong college level course that culminates in the AP Literature and Composition examination. Students will learn to produce complex academic arguments by reading a wide variety of text drawn from multiple genres, periods, and cultures.

AP English Language and Composition and AP English Literature and Composition form a two-year program of study and should be taken in sequence. While this is a recommendation, AP English Literature is open to all students who are wishing to challenge themselves in a college level course regardless of prior AP experience.

### MATHEMATICS

#### MPC250 - AP PREP PRE-CALCULUS

**Length/Credit:** Full Year/1 Credit  
**Grades:** 9, 10, 11, 12  
**Diploma Category:** 3rd Credit of Math, Algebra 1, Geometry  
**Prerequisite:** Completion of Algebra II or Algebra II-Trigonometry  
**Equipment:** A scientific calculator and the Texas Instrument TI-83/TI-84 family of graphing calculators is recommended.

This course covers the Pre-Calculus content with greater breadth and depth at a college level of rigor. Students will continue to build and expand upon their understanding of functions and equations to include quadratic, exponential, logarithmic, polynomial, rational, radical, power, and trigonometric functions.
**MCA110 - AP CALCULUS AB**  
Length/Credit: Full Year/1 Credit  
Grades: 9, 10, 11, 12  
Diploma Category: 3rd Credit of Math, Algebra 1, Geometry  
Prerequisite: Completion of Pre-Calculus or AP Prep Pre-Calculus.  
Other Info: Students are encouraged to take the AP 'AB' Calculus test in the spring.  
Equipment: A scientific calculator and the Texas Instrument TI-83/TI-84 family of graphing calculators is recommended.  

AP Calculus I is a course designed for students with a high interest and strong background in mathematics. Students can choose the AP Program, or the Cascadia College in the High School program. The first semester of the course is equivalent to Math 151 (Differential Calculus). Both programs include a conceptual development, a formal development, and applications of basic differential and integral calculus. Emphasis is on process, problem solving, and clear communication of ideas and techniques. Students will have the option of taking the AP 'AB' Exam in the spring.

**MCA111 - AP CALCULUS BC**  
Length/Credit: Full Year/1 Credit  
Grades: 10, 11, 12  
Diploma Category: 3rd Credit of Math, Algebra 1, Geometry  
Prerequisite: Completion of AP Calculus AB  
Other Info: Students are encouraged to take the AP 'BC' Calculus test in the spring.  
Equipment: A scientific calculator and the Texas Instrument TI-83/TI-84 family of graphing calculators is recommended.  

AP Calculus II is a course designed for students who have successfully completed Calculus I. The first semester of this course is equivalent to Math 152 (Integral Calculus). The curriculum builds on Calculus I and extends to cover a second quarter and part of a third quarter of college calculus. Topics of study may include advanced integration techniques and applications, functions of several variables, parametric and polar functions, sequences and series, and vectors in R2 and R3.

**MCA130 - AP STATISTICS**  
Length/Credit: Full Year/1 Credit  
Grades: 9, 10, 11, 12  
Diploma Category: 3rd Credit of Math  
Prerequisite: Completion of Algebra II or Algebra II-Trigonometry  
Other Info: Students are encouraged to take the AP Statistics test in the spring.  
Equipment: A scientific calculator and the Texas Instrument TI-83/TI-84 family of graphing calculators is recommended.  

This course is designed to offer a continued study of quantitative thinking in the areas of statistics and probability for the serious math student. Throughout this course students will be introduced to the major concepts and tools for collecting and analyzing data as it relates to four conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. This course reflects the content of a typical introductory college level statistics course. This course may be taken concurrently with another mathematics course offering.  

This is a rigorous and fast-paced course designed to give students interested in science and intending to take AP Biology and/or AP Chemistry the strong foundation in content and scientific practices necessary to succeed without taking two years of coursework to do so. The curriculum is aligned to the NGSS high school performance expectations for biology and chemistry and emphasizes experimental methodologies. Students will participate in developing scientific questions, plan and implement scientific investigations, analyze data, and formulate scientific explanations in this demanding and engaging course.

**SCB180 - AP BIOLOGY**  
Length/Credit: Full Year/1 Credit  
Grades: 9, 10, 11, 12  
Diploma Category: Lab Science  
Prerequisites: Completion or concurrent enrollment in Chemistry  
Other Info: Students are encouraged to take the AP Biology test in the spring.  

Advanced Placement Biology is a second-year course designed to prepare students to do well on the optional Advanced Placement Biology exam. It will consider, but not be limited to, biology, ecology, chemistry of cells, cellular energy, evolutionary diversity of organisms, function of plants and animals, heredity, life, and molecular genetics and structure. These topics will be covered through class discussions, lectures, independent student research and both teacher-directed and independent experiments. Some dissection may be required. Students need to be able to work independently. This course meets college entrance requirements for an algebra-based science.

**SCC160 - AP CHEMISTRY**  
Length/Credit: Full Year/1 Credit  
Grades: 10, 11, 12  
Diploma Category: Lab Science, 3rd Credit of Science  
Recommendation: Completion of Chemistry  
Other Info: Students are encouraged to take the AP Chemistry test in the spring.  

AP Chemistry will delve more deeply into the concepts covered in first-year chemistry. This class will cover the same materials as is covered in Chemistry 140-160 at the University of Washington (and most other college General Chemistry courses). The class will pick up where Chemistry left off, moving quickly into the application of equilibrium concepts to gaseous, ionic and acid-base systems. The course will prepare the students to take the AP Chemistry exam in the spring.

**SCP181 - AP PHYSICS 1**  
Length/Credit: Full Year/1 Credit  
Grades: 9, 10, 11, 12  
Diploma Category: Lab Science, 3rd Credit of Science  
Recommendation: Completion or concurrent enrollment in Algebra II or Algebra II/Trig  
Other Info: Students are encouraged to take the AP Physics 1 test in the spring.  

AP Physics 1 is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. This course will prepare students to take the AP Physics I exam in the spring.

**SCP182 - AP PHYSICS 2**  
Length/Credit: Full Year/1 Credit  
Grades: 10, 11, 12  
Diploma Category: 3rd Credit of Science, 3rd Credit of Math  
Prerequisite: Completion of AP Physics 1 or Physics  
Other Info: Students are encouraged to take the AP Physics 2 test in the spring.  

AP Physics 2 is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics, thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics.
AP Environmental Science is open to all students. The class will provide students with an understanding of the scientific principles that govern interrelationships in the natural world. Important environmental issues will be explored and the comparative risks of known and potential problems will be evaluated. Specific focus on finding solutions to current and future challenges will be highlighted. This course meets college entrance requirements for an algebra-based science.

AP Human Geography
Length/Credit: Full Year/1 Credit
Grade: 9
Diploma Category: Flexible Credit
Other Info: Students are encouraged to take the AP Human Geography test in the spring.

This course introduces 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. In addition, this course will focus on reading, writing, and study skills to help prepare students to be successful in high school and beyond. AP Human Geography addresses the Common Core State Standards for History, prepares students for the Smarter Balanced State Assessments, and establishes the skills necessary for a successful progression of learning to the next grade level of Social Studies coursework.

AP Art History
Length/Credit: Full Year/1 Credit
Grade: 9, 10, 11, 12
Diploma Category: Flexible Credit
Other Info: Students are encouraged to take the AP Art History test in the spring.

Advanced Placement Art History is a challenging and exciting course for students. The class is designed to introduce students to the understanding, appreciation, and enjoyment of works of art. The class study begins with the ancient world and continues through the current day. We will cover the development of artistic styles, major movements and figures, mediums and techniques, architecture, and make relevant historical connections. No experience is necessary, but this is a college-level class and a student should be prepared for an increased workload.

AP Psychology
Length/Credit: Full Year/1 Credit
Grade: 9, 10, 11, 12
Diploma Category: Flexible Credit, Career & Technical Education
Other Info: Students are encouraged to take the AP Psychology test in the spring.

The Advanced Placement Psychology course is designed to introduce students to the systematic and scientific study of human mental processes and behavior. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology (such as: history and approaches, research methods, biology and behavior, learning and cognition, developmental and abnormal psychology, and social psychology). Students will also learn about careers in psychology and the pathways to additional training. This course is equivalent to an introductory college course in psychology. As a college-level course, AP Psychology is best suited for students willing to apply themselves to the study of interesting and sometimes challenging material.

AP European History
Length/Credit: Full Year/1 Credit
Grade: 9, 10, 11, 12
Diploma Category: Contemporary National/World Issues
Other Info: Students are encouraged to take the AP US Government & Politics test in the spring.

This course provides both a study of broad, general concepts of the United States political system, as well as the analysis of specific case studies. Basic concepts include the Constitutional basis of US Government, political ideals and behaviors, the political party system, institutions of the national government, public policy and civil rights/liberties. Emphasis is placed on critical thinking skills, essay writing and interpretation of original documents. This course meets the following graduation requirements for social studies: 1 semester of Civics and 1 full year of Contemporary National/World Issues. Students who take this course are encouraged to take the AP exam in May for college credit.
**TECHNOLOGY & ENGINEERING**

**VJP300 - AP COMPUTER SCIENCE A**
- Length/Credit: Full Year/1 Credit
- Grades: 9, 10, 11, 12
- Diploma Category: Career & Technical Education, 3rd credit of Math, 3rd credit of Science
- Other Info: Students are encouraged to take the AP Computer Science A test in the spring.

This course introduces students to object oriented programming by teaching fundamental computer science concepts using the Java language. The curriculum mirrors the CSE 142 and 143 classes at University of Washington. Students are challenged to solve problems in new ways through procedural decomposition. Students will learn definite and indefinite looping, using varying data types, crafting methods with parameters and return values, branching with conditional execution, reading and writing to files, managing arrays and other collections, crafting classes and interfaces, optimizing searching and sorting procedures, and evaluating advanced recursive algorithms.

**WORLD LANGUAGES**

**WLF410 - AP FRENCH**
- Length/Credit: Full Year/1 Credit
- Grades: 10, 11, 12
- Diploma Category: Flexible Credit
- Prerequisite: Completion of the 350 level course of the selected language
- Other Info: Students are encouraged to take the AP French Language & Culture, or AP German Language & Culture, AP Japanese Language & Culture or AP Spanish Language & Culture test in the spring.

The AP curriculum focuses on interpersonal, interpretive, and presentational skills about global topics in French, German, Japanese, or Spanish. Students will be prepared for success on the AP exam in May and overall fluency in the respective language. Each class is conducted entirely in French, German, Japanese, or Spanish. The five Cs of language learning (Communication, Connections, Cultures, Comparisons, and Communities) will be practiced regularly as students become familiar with the six themes of the AP Language and Culture course. The themes are as follows: Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics. Students’ language skills will be ameliorated by writing regularly in a variety of formats, participating in class and small group discussions, listening to French, German, Japanese, or Spanish-language music and news stories and reading texts from the French, German, Japanese, or Spanish-speaking world.

**LEARN MORE ABOUT ADVANCED PLACEMENT AT WHS**

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See the WHS 2020-2021 Course Catalog for further details

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