Edgewood Advanced Placement Courses

What is Advanced Placement?

Advanced Placement (AP) is the enrollment of an eligible secondary student in a course offered through the Advanced Placement Program administered by the College Board. Examinations are administered at high school sites in May of each year. Students who successfully complete the course work in an Advanced Placement class receive credit toward high school graduation. Postsecondary credit for an AP course shall be awarded at Florida public colleges/universities to students who score a minimum of three (3) on a 5-point scale on the corresponding AP exam. Although most colleges and universities grant advanced placement and/or credit to students presenting AP Examination grades of three (3) or higher, policies on awarding college credit are the decision of the individual institution. All students enrolled in an AP course are required to take the AP Exam. (s. 1007.27(5) F.S.)

**Some courses may have prerequisites. Admittance to some performance-based AP courses may be at the discretion of the teacher. While the usual enrollment grade level is provided, there may be circumstances that allow for exceptions.*

Teachers listed are for the 2022-2023 school year and may be different in future school years.

English Language Arts

AP English Language and Composition
Develops students' awareness and sharpens their skills in effective writing, critical thinking, and critical reading. The emphasis is upon preparing students for more specialized studies in English and American literature, and upon building skills in writing expository prose.
Teacher: Ms. Luebcke; Usually taken in 11th Grade

AP English Literature and Composition
Provides students with an understanding of the semantic, structural, and rhetorical resources of the English language, as they relate to the principles of effective writing.
Teacher: Mr. Worcester; Usually taken in 12th Grade

Capstone Diploma Program

AP Capstone Seminar (Elective)
AP Capstone seminar: foundational AP research course that provides students with opportunities to think critically and creatively, research, explore, pose solutions, develop arguments, collaborate and communicate using various media. Students explore real world issues through a cross curricular lens, consider multiple points of view to develop deep understanding of complex issues, and connect these issues to their own lives.
Teacher: Ms. Phillips; Usually taken in 11th Grade

AP Capstone Research (Elective)
AP Capstone research: The second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills acquired in AP seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing and synthesizing information
Teacher: Ms. Noah; Usually taken in 12th Grade

Mathematics

AP Precalculus
Regardless of where you begin your high school math journey, AP Precalculus sets you up for success. If you plan to complete Geometry and Algebra 2 (or Integrated Math 3 instead) before your senior year, you're ready for AP Precalculus.
Is AP Precalculus For You?
Take AP Precalculus to:

- Try Advanced Placement for the first time.
- Prepare for calculus and other higher-level math needed for STEM majors and careers.
- Fulfill a college math requirement so you can focus on courses for your major.

**Prerequisites: Algebra I Honors, Geometry Honors, and Algebra 2 Honors*
Teacher: Mr. Muir; Usually taken in 10th, 11th, or 12th Grade

AP Calculus AB
Explore the concepts, methods, and applications of differential and integral calculus. You'll work to understand the theoretical basis and solve problems by applying your knowledge and skills. Provides students an opportunity to study college level mathematics under the guidelines of the College Board Advanced Placement Program. Content follows the outline prescribed by the College Board.
**Prerequisites: Precalculus Honors or AP Precalculus*
Teacher: Mr. Johnston; Usually taken in 11th or 12th Grade

AP Calculus BC
Explore the concepts, methods, and applications of differential and integral calculus, including topics such as parametric, polar, and vector functions, and series. You'll perform experiments and investigations and solve problems by applying your knowledge and skills. This is an extension of Calculus AB rather than an enhancement; common topics require a similar depth of understanding. Content follows the outline prescribed by the College Board.
**Prerequisite: AP Calculus AB*
Teacher: Mr. Johnston; Usually taken in 12th Grade

AP Statistics
Learn about the major concepts and tools used for collecting, analyzing, and drawing conclusions from data. You'll explore statistics through discussion and activities, and you'll design surveys and experiments. Provides students an opportunity to study college level mathematics under the guidelines of the College Board Advanced Placement Program. Content follows the outline prescribed by the College Board.
Prerequisite: Algebra 2 Honors **and Pre-Calculus Honors, AP Precalculus, Probability & Statistics Honors **or** AP Calculus AB*
Teacher: Ms. Kufner; Usually taken in 12th Grade

AP Computer Science Principles
Introduces students to the central ideas of computer science, inviting students to develop the computational thinking vital for success across multiple disciplines. This course is unique in its focus on fostering students to be creative and encouraging application of the creative process when developing computational artifacts. Students design and implement innovative solutions using an iterative process similar to what artists, writers, computer scientists, and engineers use to bring ideas to life.
**Prerequisite: Algebra 2 Honors*
Teacher: TBD; Usually taken in 10th, 11th, or 12th Grade

Science

AP Biology
Provides college level learning in biology and prepares the high school student to seek credit and/or appropriate placement in college biology courses. Includes molecular and cellular biology, organismal biology and population biology.
**Preferred prerequisite: Biology Honors and Chemistry Honors; Usually scheduled as a double block with Biology 2 Honors*
Teacher: Ms. Glover; Usually taken in 11th or 12th Grade

AP Chemistry
Provides college level learning in chemistry and prepares the student to seek credit and/or appropriate placement in college chemistry courses. Includes structure of matter (atomic theory and atomic structure, chemical bonding, and nuclear chemistry), states of matter (gasses, liquids, solids, and solutions), reaction (reaction types, stoichiometry, equilibrium, kinetics, and thermodynamics), and descriptive chemistry.
**Prerequisites: Chemistry Honors and Algebra 2 Honors; Scheduled as 2 back-to-back class periods to accommodate time for labs*
Teacher: Mr. Stelzer; Usually taken in 11th or 12th Grade

AP Physics 1
Algebra-Based 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; mechanical waves and sound. It will also introduce electric circuits.
**Prerequisite: Geometry Honors; pre/corequisite: Algebra 2 Honors*
Teacher: Mr. Walker; Usually taken in 10th, 11th, or 12th Grade

AP Physics C
This course is equivalent to a one-semester, calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as kinematics; Newton's laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Introductory differential and integral calculus is used throughout the course.
Prerequisites: AP Physics 1 or Physics Honors* ***and* *AP Calculus AB (For seniors strong in mathematics, AP Calculus AB can be taken as a corequisite with pre-approval.)*
Teacher: Mr. Johnston; Usually taken in 11th or 12th Grade

AP Environmental Science
This course is designed to be the equivalent of a one-semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental Science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography.
**Prerequisite: Algebra 1 Honors*
Teacher: Ms. Glover; Usually taken in 11th or 12th Grade

Social Studies

AP World History: Modern
Examines the political, social, economic, scientific, and cultural events that have affected human civilizations with an emphasis on the Renaissance to modern times. You'll analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments.
Teacher: Mr. Woods; Usually taken in 11th, or 12th Grade

AP U.S. History
Uses primary sources and outside readings to explain the political, social, and economic forces at work on historical events from Colonial period to modern times. You'll analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments.
Teacher: Mr. Cook; Usually taken in 10th Grade

AP Human Geography
Introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students learn about the methods and tools geographers use in their science and practice.
Teacher: Ms. Noah; Usually taken in 9th Grade

AP US Government and Politics (0.5 Credit)
Helps students acquire a critical perspective of politics and government in the United States. You'll read, analyze, and discuss the U.S. Constitution and other documents as well as complete a research or applied civics project.
Teacher: Ms. Robbins; Usually taken in 11th or 12th Grade; *Usually paired with U.S. Government Honors in the opposite semester*

AP Microeconomics (0.5 Credit)
Involves the study of fundamental economic concepts to understand how societies organize themselves to meet the unlimited wants with their limited resources. Study the principles of economics that apply to the behavior of individuals within an economic system. You'll use graphs, charts, and data to analyze, describe, and explain economic concepts.
Teacher: Mr. Clark; Usually taken in 11th or 12th Grade

AP Macroeconomics (0.5 Credit)
Examines the choices society must make as producers, consumers, investors, and taxpayers in varying economic systems. Explore the principles of economics that apply to an economic system as a whole. You'll use graphs, charts, and data to analyze, describe, and explain economic concepts.
Teacher: Mr. Clark; Usually taken in 11th or 12th Grade

AP European History
Study the cultural, economic, political, and social developments that have shaped Europe from c. 1450 to the present. You'll analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments.
Teacher: Mr. Woods; Usually taken in 11th or 12th Grade

AP Psychology
Helps students acquire an understanding of human behavior, interactions and development as designed by the College Board. You'll examine the concepts of psychology through reading and discussion and you'll analyze data from psychological research studies.
Teacher: Ms. Sierra; Usually taken in 10th, 11th, or 12th Grade

World Languages

AP Latin
Allows the advanced Latin student to continue to build upon the usage of Latin grammar readings in prose; the study of the Roman civilization through its literature with an emphasis on politics, history and mythology and in depth derivative study to refine and develop the student's English vocabulary. This course follows the Advanced Placement Program Guidelines.
**Prerequisites: Latin 1, Latin 2, Latin 3 Honors, Latin 4 Honors*
Teacher: Ms. Glenn; Usually taken in 11th or 12th Grade

AP Spanish Language
Develops oral and written fluency in the language. The student will comprehend formal and informal spoken language and compose expository passages. This course follows the Advanced Placement Program Guidelines.
**Prerequisites: Spanish 1, Spanish 2, Spanish 3 Honors, Spanish 4 Honors*
Teacher: Ms. Perotti; Usually taken in 11th or 12th Grade

Fine and Performing Arts

AP Art and Design Program - Choose one of the three portfolios below
**Prerequisites: At least two years of high school art*
Teacher: Ms. Flint; Usually taken in 11th or 12th Grade

- **Portfolio Option: AP Studio Art 2D and Design Portfolio**
  Addresses a very broad interpretation of two-dimensional design issues. This type of design involves purposeful decision making about how to use the elements and principles of art in an integrative way. Develop your 2-D skills through materials and processes such as graphic design, photography, collage, printmaking, fashion illustration, collage, and others. You'll create artwork that reflects your own ideas and skills and what you've learned.

- **Portfolio Option: AP Studio Art 3D and Design Portfolio**
  Addresses a very broad interpretation of sculptural issues in three-dimensional (3-D) design. Includes: advanced study of the principles of design including unity/variety, balance, emphasis rhythm, proportion/scale, symmetry/asymmetry, and anomaly; development of proficiency in a variety of 3D forms including traditional sculpture, architectural models, apparel, ceramics, jewelry, and three dimensional fiber arts or metal work.

- **Portfolio OPtion: AP Art/Drawing Portfolio**
  Develop your skills in drawing as you experiment with different materials and processes. You'll create artwork that reflects your own ideas and skills and what you've learned.

AP Music Theory (Offered every other year)
Parallels basic college level music theory objectives, which include harmonic analysis, part writing, sight singing and musical dictation. Students must be able to demonstrate a visual and aural understanding of basic musical elements and compositional procedures before they can sign up for this course.
**Prerequisite: Teacher Discretion*
Teacher: Mr. Franco; Usually taken in 10th, 11th, or 12th Grade