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Advanced Placement (AP) Courses:

AP Biology
A college-level biology course focused on inquiry-based learning, laboratory investigation, and core concepts such as evolution, cellular processes, genetics, and systems interactions.

AP Computer Science
Introduces students to programming and computational thinking through problem-solving, algorithms, and data analysis. Students learn to design, write, and test programs while developing logical reasoning skills.

AP Calculus AB
Covers limits, derivatives, integrals, and their applications. Students build a strong foundation in differential and integral calculus, preparing them for first-semester college mathematics.

AP Calculus BC
Extends the content of AP Calculus AB to include advanced integration techniques, sequences and series, and parametric, polar, and vector functions. Designed for students seeking deeper mathematical rigor.

AP Environmental Science
An interdisciplinary course examining environmental systems, sustainability, and human impact on the natural world. Students analyze scientific principles, data, and real-world environmental issues.

AP English Language and Composition
Focuses on rhetoric, argumentation, and non-fiction writing. Students analyze how authors use language and develop evidence-based analytical and
argumentative essays.

AP English Literature and Composition
Emphasizes close reading and analysis of poetry, drama, and fiction. Students develop advanced critical reading and writing skills through literary interpretation.

AP Government and Politics (U.S.)
Analyzes the structure and function of the U.S. government, constitutional principles, political behavior, and public policy. Students examine foundational documents and contemporary political issues.

AP Music Theory
Develops music literacy through analysis, composition, sight-singing, and ear training across a variety of musical styles and historical periods.

AP Physics
Examines fundamental principles of physics, including motion, energy, forces, and fluids, using mathematical reasoning, experimentation, and problem-solving.

AP Precalculus
Prepares students for calculus by deepening understanding of functions, modeling, and mathematical reasoning. Emphasis is placed on multiple representations and real-world applications.

AP Psychology
Introduces students to the scientific study of behavior and mental processes. Topics include cognition, development, learning, personality, and psychological disorders.

AP Research
A capstone course in which students conduct an original, year-long research project. Students design a research question, analyze data, and present findings through a formal paper and presentation.

AP Seminar
An interdisciplinary course that develops research, collaboration, and presentation skills through inquiry-based exploration of real-world issues and multiple perspectives.

AP Spanish Language and Culture
Builds advanced communication skills in Spanish through listening, speaking, reading, and writing while exploring Hispanic cultures and global issues.

AP Statistics
Introduces students to data analysis, probability, and statistical reasoning. Students learn to interpret data, design studies, and draw conclusions from real-world datasets.

AP United States History
Surveys U.S. history from pre-Columbian times to the present, focusing on political, economic, social, and cultural developments and historical reasoning skills.

AP World History: Modern
Explores global historical developments from c. 1200 CE to the present, emphasizing patterns of change, continuity, and global connections.

<u>Dual Enrollment Courses</u>
College-level courses offered in partnership with colleges and universities that allow students to earn both high school and transferable college credit. These courses challenge students to meet real university expectations while building academic confidence, independence, and readiness for postsecondary success.

DE College Algebra (Math)
A college-level algebra course focused on functions, equations, and mathematical modeling, preparing students for advanced college mathematics.

DE College Writing (ELA)
Develops college-level academic writing skills through research, argumentation, and analytical essays aligned to university standards.

DE Latin American History and Literature (World Languages)
An interdisciplinary course taught in Spanish that explores Latin American history, culture, and literature while strengthening advanced language proficiency.

DE Hispanic Literature (World Languages)
A college-level literature course conducted in Spanish, analyzing major works by Hispanic authors while developing advanced reading, writing, and critical analysis skills.

DE Technical Theater (Arts)
Explores lighting, sound, costume, and stage design through hands-on projects and conceptual planning in theater production.

DE Self Management (Special Education)
Supports students in developing executive functioning, self-advocacy, and organizational skills aligned to college readiness and independent learning.

SUPA Biology (Science)
A Syracuse University course taught in high school that emphasizes scientific inquiry, laboratory skills, and core biological concepts.

SUPA Computer Science (Science)
Introduces college-level computer science concepts, including programming and computational problem-solving, for Syracuse University credit.

SUPA Personal Finance (Math)
A college-level course focused on financial literacy, budgeting, credit, investing, and economic decision-making.