Specialized Programs

STEAM

Millennium 6-12 Collegiate Academy's STEAM program integrates Science, Technology, Engineering, the Arts, and Mathematics into a hands-on, interdisciplinary curriculum. Through interactive fields like coding and robotics, students apply critical thinking to solve real-world engineering challenges. Incorporating artistic principles encourages creative design-thinking, user-interface aesthetics, and innovative problem-solving alongside technical skills. Project-based learning—such as writing algorithms, building autonomous robots, or creating digital art—fosters teamwork and practical experience.

AERONAUTICS

Millennium 6-12 Collegiate Academy's Aeronautics program introduces students to the fundamentals of flight through hands-on STEM and design principles. Learners explore core concepts of aerodynamics, thrust, and lift by testing model aircraft, experimenting with wind tunnels, and using flight simulators. By incorporating flight software and lightweight engineering projects, students build critical problem-solving skills while discovering real-world aviation applications. Literacy.

G.E.A.R.S

Millennium 6-12 Collegiate Academy's G.E.A.R.S. (General Engineering and Applied Rigorous Science) program is an accelerated science track designed to cover three years of comprehensive science curriculum in two years. Students explore integrated Earth, Life, and Physical Science concepts through hands-on inquiry, data analysis, and problem-solving. By completing this rigorous sequence in 6th and 7th grade, students earn high school science course credit while still in middle school. Ultimately, the program prepares advanced learners for honors-level high school coursework and early entry into advanced STEM pathways.

G.E.M.

Millennium 6-12 Collegiate Academy's G.E.M. (Great Explorations in Mathematics) middle school program is an accelerated mathematics track designed for mathematically talented students. It allows students to complete four years of high school-level math, including Algebra 1 Honors and Geometry Honors—before entering 9th grade. Through a fast-paced and rigorous curriculum, learners develop advanced problem-solving skills, abstract reasoning, and deep conceptual understanding. Ultimately, the program prepares students for early entry into Advanced Placement (AP) calculus and higher-level STEM courses in high school.