



**Morris Hills Regional District
Summer Acceleration 2024
Course Descriptions**

PLEASE NOTE: These courses are acceleration courses, not remedial courses; only students who are taking these courses for the first time may enroll. All courses require outstanding motivation, work ethic, and attendance. Final grades will be used in Class Rank/GPA calculation for all Morris Hills Regional District students. These courses are only open to students who will be in high school in September 2024.

Full-Year Courses (120 hours of seat time required):

ALGEBRA 1 CPA (MT210)

5 credits; meets NJ high school graduation requirements for Mathematics

Prerequisite: successful completion of Pre-Algebra and teacher recommendation for Algebra I CPA

This is the first course offered in the mathematics college preparatory sequence. It serves as the foundation for further work in mathematics in high school, technical institutes, or colleges. Topics covered in this course include number sense and operations, algebraic expressions, linear equations and inequalities, systems of linear equations and inequalities, absolute value equations, radicals, quadratic and exponential functions, data analysis, and probability.

GEOMETRY HONORS (MT220)

5 credits; meets NJ high school graduation requirements for Mathematics

Prerequisite for Current Grade 8 student: successful completion of Algebra I and teacher recommendation

Prerequisite for Current Grade 9 student: successful completion of Algebra I CPA and teacher recommendation

This course is offered as the second of the mathematics college preparatory sequence. Concepts focus on an in-depth analysis of plane, solid, and coordinate geometry as they relate to both abstract mathematical concepts as well as real-world problem situations. Topics include logic and proof, parallel lines and polygons, perimeter and area analysis, volume and surface area analysis, similarity and congruence, trigonometry, and analytic geometry. Emphasis will be placed on developing critical thinking skills as they relate to logical reasoning and argument. Students will be required to use different technological tools and manipulatives to discover and explain much of the course content.

Half-Year Courses (60 hours of seat time required):

PERSONAL FINANCE

2.5 credits; meets NJ high school graduation requirement for Financial Literacy

This course is designed to provide the knowledge needed to solve a wide variety of financial issues. The students are given the tools necessary to address the challenges of living on their own, such as bringing home a paycheck, utilizing a checking and savings account, renting an apartment, purchasing a house, purchasing a car, budgeting, and using credit. Personal Finance is a practical course that helps students become more informed consumers and avoid common mistakes.

SAT PREPARATION MATH/LANGUAGE ARTS (EN921/EN931)

2.5 credits; Elective credit only-does not meet math or English requirements for graduation

The primary goal of this semester course is to help students prepare for the SAT in math and language arts. Students will receive 30 hours of mathematics instruction and 30 hours of language arts instruction. In this course students will learn how the SAT is scored, review and practice math and language arts concepts for each question type, learn test taking strategies, and practice pacing by taking several timed practice tests. Students will also learn tips and strategies for the ACT.