

MATH

Course Title	Course #	Credit	Level	Prerequisite	NCAA
TUTOR-MATH	40450	0.5	11-12	See Below	Yes
	Must have had a grade of A or B in Algebra II with Trigonometry and recommendation from a math teacher. Students enrolled in this class will be required to help students in Algebra I and Algebra II with Trigonometry. Classes. <i>Meets Graduation Requirements in: Elective.</i>				
SUPPLEMENTAL MATH LAB	40530	0.5	9-10	None	Yes
SUPPLEMENTAL MATH LAB	40531	0.5	9-10	None	Yes
	This class is designed for Algebra II with Trigonometry and Geometry students who have gaps in their mathematics skills and could benefit by additional practice and peer tutoring to support them in their regular math class. <i>Meets Graduation Requirements in: Elective.</i>				
ALGEBRA I PART 1	60380 S1	0.5	9	Teacher Approval	Yes
ALGEBRA I PART 1	60380 S2	0.5	9	Teacher Approval	Yes
Expense: Scientific Calculators	This course requires a two-year commitment from the student. Completion of both Algebra I Part 1 and Algebra I Part 2 will count as one credit for CCHE and NCAA requirements. In this yearlong course students study the first half of Algebra I and are expected to complete the course by taking Algebra I Part II the following year. Students review basic computational skills and begin working with variables to simplify algebraic expressions and solve first degree equations. Students study real numbers, polynomials, and graphing. Organizational and study skills are emphasized. <i>Meets Graduation Requirements in: Math</i>				
ALGEBRA I PART 2, Semester 1	60385 S1	0.5	10	See Below	Yes
ALGEBRA I PART 2, Semester 2	60385 S2	0.5	10	See Below	Yes
Expense: Scientific Calculators	Prerequisite: Algebra I Part 1 and/or teacher recommendation. Successful completion of both Algebra I Part 1 and Part 2 will fulfill the Algebra I graduation requirement. In addition, completion of both Algebra I Part 1 and Algebra I Part 2 will count as one credit for CCHE and NCAA requirements. In this yearlong course students will study the second half of Algebra I continuing work with variables, real numbers, first and second degree equations, inequalities, factoring, polynomials, radicals, and graphing. <i>Meets Graduation Requirements in: Mathematics.</i>				
ALGEBRA I Semester 1	60400 S1	0.5	9	See Below	Yes
ALGEBRA I Semester 2	60400 S2	0.5	9	See Below	Yes
Expense: Scientific Calculators	Prerequisite: Pre-Algebra with a grade of C or higher, teacher recommendation and placement exam. Algebra I covers the following topics: basic probability and statistics; operations with and use of variables, order of operations with real numbers, linear and quadratic equations and inequalities, factoring, operations with polynomials, exponents and radicals. Meets CCHE pre-collegiate curriculum requirements. <i>Meets Graduation Requirements in: Mathematics.</i>				
ALGEBRA II w/ TRIGONOMETRY	60590 S1	0.5	9-12	See Below	Yes
ALGEBRA II w/ TRIGONOMETRY	60590 S2	0.5	9-12	See Below	Yes
Expense: TI-83 or newer graphing calculator	Prerequisite: Algebra I with a grade of C or higher and placement exam. It is highly recommended that students purchase a TI-83 (or newer) graphing calculator. This course expands and clarifies concepts introduced in Algebra I and Geometry. Topics include linear and quadratic functions and systems, matrix operations, advanced probability and statistics, rational, exponential and logarithmic functions, right triangle trigonometry, periodic functions, quadratic relations, conic sections, and sequences and series. The teacher will demonstrate concepts using the graphing calculator. <i>Meets Graduation Requirements in: Mathematics.</i>				
ALGEBRA II	60440 S1	0.5	11-12	See Below	Yes
ALGEBRA II	60440 S2	0.5	11-12	See Below	Yes
Expense: TI-83 or newer graphing calculator	Prerequisite: Successful completion of Applied Geometry and Topics in Geometry, Algebra and Trigonometry or equivalent course. Students study algebraic equations and functions. Other topics include: linear inequalities, systems of equations, polynomials, factoring, rational expressions, radicals, and solving quadratic equations. Real world applications are included. <i>Meets Graduation Requirements in: Mathematics.</i>				

Course Title	Course #	Credit	Level	Prerequisite	NCAA
ALGEBRA II HONORS	60550 S1	0.5	9	See Below	Yes
ALGEBRA II HONORS	60550 S2	0.5	9	See Below	Yes
Expense: TI-83 or newer graphing calculator	Prerequisites: Successful completion of Algebra I Honors with a grade of B or higher, teacher recommendation and placement exam. This is a rigorous course for highly motivated students. It is a comprehensive study of functions including; linear functions, quadratic functions, exponential functions, logarithmic functions, rational and irrational algebraic functions, and higher-degree functions. It also includes sequences, series, and probability. <i>Meets Graduation Requirements in: Mathematics.</i>				
APPLIED GEOMETRY	60525	0.5	10-12	Algebra I	Yes
	The focus of this course is geometric foundations, measurement, and applications. Students taking this course will use a variety of tools and techniques to communicate the reasoning involved in solving problems. <i>Meets Graduation Requirements in: Mathematics.</i>				
GEOMETRY	60475 S1	0.5	9-12	See Below	Yes
GEOMETRY	60475 S2	0.5	9-12	See Below	Yes
Expense: TI-83 or newer graphing calculator	Prerequisites: Algebra II with Trigonometry with a grade of C or higher and teacher recommendation. This course is concerned with spatial relationships of two and three-dimensional figures. It is the study of mathematics by logical deduction, the construction of geometric figures, and applications to problem solving. <i>Meets Graduation Requirements in: Mathematics.</i>				
GEOMETRY HONORS	60450 S1	0.5	10	See Below	Yes
GEOMETRY HONORS	60450 S2	0.5	10	See Below	Yes
Expense: TI-83 or newer graphing calculator	Prerequisite: Algebra II Honors with a grade of B or higher, teacher recommendation. This is an accelerated Geometry course for students who want a challenging, fast-paced math course. In addition to the topics in Geometry, Geometry Honors emphasizes the proof of geometric and algebraic properties and emphasizes real-world applications to geometric concepts. <i>Meets Graduation Requirements in: Mathematics</i>				
TOPICS IN GEOMETRY, ALG AND TRIG.	60340 S1	0.5	10-12	Applied Geo	Yes
	This course is an extension of algebra and applied geometry and will include basic concepts of trigonometry. Students will also develop test-taking strategies. <i>Meets Graduation Requirements in: Mathematics.</i>				
MATHEMATICS OF MONEY	60915	0.5	11-12	Algebra I	Yes
	The focus of this course is an algebraic foundation as applied to applications involving money. Students taking this course will use a variety of tools and techniques to communicate the reasoning in solving problems involving personal finances. <i>Meets Graduation Requirements in: Mathematics.</i>				
DATA AND DECISIONS	60305	0.5	12	Algebra I	Yes
	The purpose of this course is to explore the meaning of statistics encountered in everyday life. The emphasis will be on understanding and interpreting, rather than computing, through exploration of real-life situations that involve statistical concepts. <i>Meets Graduation Requirements in: Mathematics.</i>				
COLLEGE ALGEBRA	60570 S1	0.5	11-12	See Below	Yes
COLLEGE ALGEBRA	60570 S2	0.5	11-12	See Below	Yes
Expense: TI-83 or newer graphing calculator	Prerequisite: Algebra II with Trigonometry and Geometry with a grade of C or higher. Corequisite: Trigonometry (either semester, but 2nd semester is suggested) This course for college bound students covers algebraic and trigonometric functions, their application and their graphs. This course is taken in conjunction with one semester of Trigonometry. Trigonometry is required for admission into engineering colleges. Optional registration second semester for University of Colorado credit. <i>Meets Graduation Requirements in: Mathematics.</i>				

Course Title	Course #	Credit	Level	Prerequisite	NCAA
COLLEGE MATH	60750	0.5	11-12	See Below	Yes
Expense: TI-83 or newer graphing calculator	Prerequisite: Algebra II w/ Trigonometry with grade of C or higher. This course is designed for college bound students interested in business, social sciences, and communications. Graphing technology will be used to solve real problems from these fields. <i>Meets Graduation Requirements in: Mathematics.</i>				
TRIGONOMETRY	60600	0.5	11-12	See Below	Yes
TRIGONOMETRY	60605	0.5	11-12	See Below	Yes
Expense: TI-83 or newer graphing calculator	Prerequisite: Algebra II w/Trigonometry and Geometry with a grade of C or higher. This course will cover trigonometric and circular functions, as well as right triangle trigonometry, laws of sine and cosine, and their applications. <i>Meets Graduation Requirements in: Mathematics.</i>				
PROBABILITY AND STATISTICS	60775	0.5	11-12	See Below	Yes
Expense: TI-83 or newer graphing calculator	Prerequisite: Algebra II w/ Trigonometry with grade of C or higher. Students will study topics in probability and statistics including experimental design and presentation and interpretation of data. <i>Meets Graduation Requirements in: Mathematics.</i>				
PRE-CALCULUS	60610	0.5	10-12	See Below	Yes
Expense: TI-83 or newer graphing calculator	Prerequisite: Completion of Honors Geometry with a grade of B or higher and teacher recommendation. This course emphasizes functions, graphing and use of the graphing calculator. <i>Meets Graduation Requirements in: Mathematics.</i>				
CALCULUS A	60674	0.5	10-12	Pre Calculus	Yes
Expense: TI-83 or newer graphing calculator	Topics covered include limits, differentiation, integration and problem solving involving calculus concepts. <i>Meets Graduation Requirements in: Mathematics.</i>				
ADVANCED PLACEMENT COURSES					
AP STATISTICS	60801S1	0.5	11-12	See Below	Yes
AP STATISTICS	60801S2	0.5	11-12	See Below	Yes
AP Exam: \$86.00 Expense: TI-83 or newer graphing calculator	Prerequisite: Algebra II with Trigonometry with grade of B or higher. The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to broad conceptual themes such as: exploring data, sampling and experimentation, anticipating patterns, and statistical influence. <i>Meets Graduation Requirements in: Mathematics.</i>				
AP CALCULUS AB	60625 S1	0.5	11-12	See Below	Yes
AP CALCULUS AB	60625 S2	0.5	11-12	See Below	Yes
AP Exam: \$86.00 Expense: TI-83 or newer graphing calculator	Prerequisite: Trigonometry and College Algebra with a grade of B or better, teacher recommendation. Students study the college Board AB level calculus syllabus. Topics covered include limits, differentiation, integration, and problem solving involving calculus concepts. <i>Meets Graduation Requirements in: Mathematics.</i>				
AP CALCULUS BC	60650 S1	0.5	11-12	See Below	Yes
AP CALCULUS BC	60650 S2	0.5	11-12	See Below	Yes
AP Exam: \$86.00 Expense: TI-83 calculator	Prerequisite: PreCalculus/Calculus A and teacher recommendation. Students will study the College Board BC level calculus syllabus. Major topics covered include differentiation, integration, and problem solving involving calculus concepts. <i>Meets Graduation Requirements in: Mathematics.</i>				