

GCVSP Math Courses

This is ONLY a list of Course Descriptions. To see WHEN these courses are offered, click on Current Course Offerings on the Website. Each Term is listed with courses offered.

Foundations in Algebra

This one-unit semester course is the first half of a two-year program that gives students an opportunity to learn Algebra 1 and to begin examining concepts from Algebra 2 and Probability and Statistics. Students who complete the Foundations in Algebra and Intermediate Algebra sequence will take the state-mandated Algebra 1 End-of-Course test at the end of the second course Intermediate Algebra. This course is intended for students who, as 9th graders, are not yet ready for the rigor of an Algebra 1 class. The sequence of courses, Foundations in Algebra and Intermediate Algebra, meets the state Algebra 1 standards and will be recognized by South Carolina colleges as Algebra 1 if followed by successful completion of Algebra 2. PREREQUISITE: District criteria and Teacher recommendation

Intermediate Algebra

This one-unit yearlong course is the second half of a two-year program that gives students an opportunity to learn Algebra 1 and to begin examining concepts from Algebra 2 and Probability and Statistics. Students who complete the Foundations in Algebra and Intermediate Algebra sequence will take the state-mandated Algebra 1 End-of-Course test at the end of the second course Intermediate Algebra. This course is intended for students who, as 9th graders, are not yet ready for the rigor of an Algebra 1 class. The sequence of courses, Foundations in Algebra and Intermediate Algebra, meets the state Algebra 1 standards and will be recognized by South Carolina colleges as Algebra 1 if followed by successful completion of Algebra 2. PREREQUISITE: Foundations in Algebra

Algebra 1 CP

This one-unit yearlong course includes writing expressions, solving linear equations, operations with polynomials, factoring, linear functions, and word problems. Students will also be introduced to non-linear functions such as exponentials and quadratics. In Algebra 1, hand-held graphing calculators are strongly recommended as part of instruction and assessment. Algebra 1 is required for graduation. Students will take the South Carolina End-of-Course Algebra 1 exam as the final exam in this course and it will count 20% of the final grade. PREREQUISITE: District criteria and Teacher recommendation

Algebra 1 Honors

Algebra 1 Honors is a one-unit yearlong course in which students will study all of the topics included in Algebra 1 CP. They will also study additional topics including step functions, transformations of absolute value functions, factoring quartic expressions in quadratic form, translating a quadratic function into vertex form, and sequences as functions. Students will be required to work with more intensity, at a deeper level, and produce a wider range of more complex and difficult material. Algebra 1 is required for graduation. Students must take the South Carolina End-of-Course Algebra 1 exam as the final exam in this course and it will count 20% of the final grade. PREREQUISITE: Math 6/7/8, Math 7/8, or Math 8 & District Criteria; Math Teacher recommendation

Geometry CP

This one-unit semester course utilizes mathematical proof in the development of two and three dimensional geometric concepts and properties. Topics include angle measurements and relationships, line relationships, properties of polygons and solids, similarity and congruence, Pythagorean relationships, circles, area, volume and transformations. Students are expected to use a scientific calculator, graphing calculators and/or computer with dynamic interactive software throughout the year. PREREQUISITE: Algebra 1 CP or equivalent and Math Teacher recommendation; Rising 9th graders use District Guidelines

Geometry Honors

Geometry Honors is offered as both a one-unit semester course and a one-unit yearlong course depending on the home school of the student. Students study all of the topics included in Geometry CP. Honors students will study additional topics including truth tables, triangle centers, Euler's line, Law of Sines, Law of Cosines, and Cavalieri's Principle. The Mathematical Practice Standards apply throughout the course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Students will be required to work with more intensity, at a deeper level, and produce a wider range of more complex and difficult material. PREREQUISITE: Algebra 1; District Criteria; Math Teacher recommendation

Algebra 2 CP

This one-unit semester course is the study of functions, patterns, relations, and concepts of number systems. This course focuses on the development of the student's ability to understand and apply mathematics to solve realistic workplace problems. Hand-held graphing calculators are recommended for instruction and assessment. PREREQUISITE: Algebra 1 CP, Geometry CP; Math Teacher recommendation; Rising 9th graders use District Guidelines

Algebra 2 Honors

Algebra 2 Honors is a one-unit semester course in which students study all topics included in Algebra 2 CP. They also study additional topics including the Binomial Theorem, operations with complex numbers, graphs of rational functions, solutions of logarithmic equations, synthetic division of polynomials, function composition and inverses. Hand-held graphing calculators are recommended for instruction and assessment. Students will be required to work with more intensity, at a deeper level, and produce a wider range of more complex and difficult material. PREREQUISITE: Algebra 1; Geometry; Math Teacher recommendation

Algebra 3 CP

This one-unit semester course focuses on the development of the student's ability to understand and apply the study of functions and advanced mathematics concepts to solve problems. The course will include a study of polynomial, rational, exponential, logarithmic, and trigonometric functions. The course is designed for students who have taken Algebra 2 but who do not have a strong enough background to go directly into Precalculus CP. It is a bridge between Algebra 2 and Precalculus CP, including some of the culminating topics of Algebra 2 and some of the introductory topics of Precalculus CP. PREREQUISITE: Algebra 2 CP and Math Teacher recommendation

Probability and Statistics CP

Probability and Statistics is a one-unit semester course which is a broad introduction to the concepts of probability and statistics. Topics will include probability; collection display, and analysis of data; permutations and combinations; binomial normal and t-distributions. PREREQUISITE: Geometry; Algebra 2

Precalculus CP

Precalculus is a one-unit semester course of mathematical studies focusing on the development of the student's ability to understand and apply the study of functions and advanced mathematics concepts to solve problems. The course will include a study of polynomial, rational, exponential, logarithmic, and trigonometric functions. Students are expected to use technology, including graphing calculators, computers, and data-gathering equipment throughout the course. PREREQUISITE: Geometry; Algebra 2; Math Teacher recommendation

Precalculus Honors

This honors-level one-unit semester course is a program of mathematical studies focusing on the development of the student's ability to understand and apply the study of functions and advanced mathematics concepts to solve problems. The course will include a study of polynomial, rational, exponential, logarithmic, and trigonometric functions.. Students are expected to use technology, including graphing calculators, computers, and data-gathering equipment throughout the course. Students will be required to work with more intensity, at a deeper level, and produce a wider range of more complex and difficult material. PREREQUISITE: Geometry ; Algebra 2; Math Teacher recommendation