

<u>COURSE NAME</u>	<u>DESCRIPTION</u>
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**Algebra I  
(Required)**

This is a freshman level course that includes normal development of real number systems and involves solving linear and quadratic equations. There is an emphasis on exponent, scientific notation, graphing systems of linear equations and inequalities, and solving real-world problems as they relate to the curriculum.

*Prerequisites: None*  
*Graduation Credit: 1*

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**Geometry  
(Required)**

This sophomore level course will focus on the basic principle of geometry, including points and lines, angles, coordinate planes, slope, equations of lines, angles and area of triangles and quadrilaterals.

*Prerequisites: Algebra I recommended*  
*Graduation Credit: 1*

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**Algebra II  
(Required)**

This is a junior level class designed to help the student increase their knowledge and confidence with Algebra skills. Uniform motion problems are studied as well as the application of sine, cosine, tangent, rectangular, and polar coordinates as they apply. The complex number system is explored, along with heavy use of the quadratic formula.

*Prerequisites: Algebra I, Geometry*  
*Graduation Credit: 1*

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**Trigonometry  
(Elective)**

This is a course in math that studies triangles. Students will study the relationship between the lengths of the sides of a triangle, and then expand to studying the sine, cosine, and tangent and the application process. The student will become familiar with the formulas of trigonometric functions such as the Law of Sines and Cosines.

*Prerequisites: Algebra I, Geometry*  
*Graduation Credit: 1*

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**College Algebra  
(Elective)**

This course is taken in conjunction with Missouri Western's dual credit program and will earn high school credit as well as three hours college credit. Students will study linear, quadratic, and miscellaneous equations and inequalities; relations and functions including polynomial, rational, exponential, and logarithmic functions; graphing; systems and equations; and matrices.

*Prerequisites: Algebra I, Geometry, Algebra II, ACT score of 20 or higher in  
Math subcategory*

*Graduation Credit: 1*  
*College Credit Hour: 3*