College Algebra

KRSN MAT1010 – College Algebra

INSTITUTION	COURSE ID	COURSE TITLE	CREDIT HOURS
Allen County CC	MAT 105	College Algebra	3
Barton County CC	MATH 1828 or MATH 1826	College Algebra or Int. and College Algebra	3, 5
Butler CC	MA 135	College Algebra	3
Cloud County CC	MA 111	College Algebra	3
Coffeyville CC	MATH 105	College Algebra	3
Colby CC	MA 178	College Algebra	3
Cowley County CC	MTH 4420	College Algebra	3
Dodge City CC	MATH 106	College Algebra	3
Emporia State U	MA 110	College Algebra	3
Flint Hills Tech Col	MA 110	College Algebra	3
Ft. Hays State U	MATH-110	College Algebra	3
Ft. Scott CC	MAT 1083	College Algebra	3
Garden City CC	MATH-108	College Algebra	3
Highland CC	MAT 104	College Algebra	3
Hutchinson CC	MA 106	College Algebra	3
Independence CC	MAT 1023 or MAT 1025	College Algebra	3, 5
Johnson County CC	MATH 171	College Algebra	3
Kansas City Kansas CC	MATH0105	College Algebra	3
Kansas State U	MATH 100	College Algebra	3
Labette CC	MATH 115	College Algebra	3
Manhattan Area Tech Col	MAT 135	College Algebra	3
Neosho County CC	MATH 113	College Algebra	3
North Central KS Tech Col	MA-111	College Algebra	3
Northwest KS Tech Col	MATH 115	College Algebra	3
Pittsburg State U	MATH-113	College Algebra	3
Pratt CC	MTH 177 or MTH 178	College Algebra	3, 5
Salina Area Tech Col	MAT 150	College Algebra	3
Seward County CC	MA 1173	College Algebra	3
Univ. of Kansas	MATH 101	College Algebra	3
Washburn U	MA 116	College Algebra	3
Wichita Area Tech Col	MTH 112	College Algebra	3
Wichita State U	MATH 111	College Algebra	3

College Algebra-MAT1010 CORE OUTCOMES

Upon completion of the above listed course, students will be able to do the following:

Students will be expected to use appropriate technology as one tool to achieve the following outcomes:

Analysis and Graphing of Functions and Equations

- Use functional notation.
- Recognize and distinguish between functions and relations (equations).
- Use concepts of symmetry, intercepts, left- and right-hand behavior, asymptotes, and transformations to sketch the graph of various types of functions (constant, linear, quadratic, absolute value, piecewise-defined, square root, cubic, polynomial, rational, exponential, and logarithmic) or relations (circle) given in description.
- Determine the domain and range of a function.
- Write the equation that describes a function (for types given above) or circle given its description.
- Use graphs of functions for analysis.
- Find arithmetic combinations and composites of functions.
- Find the inverse of a function.

Solutions of Equations and Inequalities

- Solve equations listed in the third bullet above, i.e., literal equations, quadratic equations by factoring and the quadratic formula, equations involving rational expressions, equations involving radicals, and equations involving absolute value expressions, along with equations involving exponential or logarithmic functions.
- Solve inequalities of the following types: linear (in one and two variables), polynomial, rational, absolute value.
- Solve systems of inequalities by graphing.
- Apply equations from the first bullet in this core outcome to real-world situations, including but not limited to depreciation, growth and decay, and max/min problems.
- Examine and analyze data, make predictions/interpretations, and do basic modeling.
- Solve systems of equations by various methods, including matrices.