

## KRSN MAT1010 – College Algebra

For specific Institutional Transfer Articulation information visit: [kansasregents.org/institutional-transfer-information](https://kansasregents.org/institutional-transfer-information).

INSTITUTION	COURSE ID	COURSE TITLE	CREDIT HOURS
Allen CC	MAT 105	College Algebra	3
Barton County CC	MATH 1828	College Algebra	3
	MATH 1826	Intermediate and College Algebra	5
Butler CC	MA 131 or	College Algebra with Review	5
	MA 135 or	College Algebra	3
	MA 132 &	College Algebra I &	1
	MA 133 &	College Algebra 2 &	1
	MA 134	College Algebra 3	1
Cloud County CC	MA 111	College Algebra	3
Coffeyville CC	MATH 104	College Algebra with Review	5
	MATH 105	College Algebra	3
Colby CC	MA 178	College Algebra	3
Cowley CC	MTH 4420	College Algebra	3
Dodge City CC	MATH 106	College Algebra	3
Fort Scott CC	MAT 1083	College Algebra	3
	MAT 1084	College Algebra with Review	4
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	College Algebra	3
	MAT 1025	College Algebra	5
JCCC	MATH 171	College Algebra	3
KCKCC	MATH 0105	College Algebra with Review	5
	MATH 0106	College Algebra	3
Labette CC	MATH 115	College Algebra	3
Neosho County CC	MATH 111	College Algebra Workshop	5
	MATH 113	College Algebra	3
Pratt CC	MTH 178	College Algebra	3
Seward County CC	MA 1173	College Algebra	3
FHTC	MA 110	College Algebra	3
Manhattan Tech	MAT 135	College Algebra	3
NCK Tech	MA 111	College Algebra	3
NWKTC	MATH 115	College Algebra	3
SATC	MAT 150	College Algebra	3
WATC	MTH 112	College Algebra	3
ESU	MA 110	College Algebra	3
FHSU	MATH 110	College Algebra	3
KSU	MATH 100	College Algebra	3
KU	MATH 101	College Algebra	3
PSU	MATH 113	College Algebra	3
	MATH 111	College Algebra with Review	3
WSU	MATH 111	College Algebra	3
Washburn	MA 116	College Algebra	3

Revised 09/08/2017

## College Algebra - MAT1010 CORE OUTCOMES

Course Approval Date: Fall 2016

Course Review Date: Fall 2021

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.