KRSN MAT1030 -TRIGONOMETRY

For specific Institutional Transfer Articulation information visit: kansasregents.org/institutional-transfer-information.

Institution	Course Number	Course Title	Credit Hours
Allen CC	MAT 106	Plane Trigonometry	3
Barton CC	MATH 1830	Trigonometry	3
Butler CC	MA 140	Trigonometry	3
Cloud County CC	MA 112	Trigonometry	3
Coffeyville CC	MATH 106	Trigonometry	3
Colby CC	MA 185	Plane Trigonometry	3
Cowley CC	MTH 4425	Trigonometry	3
Dodge City CC	MATH 110	Trigonometry	3
Fort Scott CC	MAT 1093	Trigonometry	3
Garden City CC	MATH 109	Plane Trigonometry	3
Highland CC	MAT 105	Trigonometry	3
Hutchinson CC	MA 107	Plane Trigonometry	3
Independence CC	MAT 1093	Plane Trigonometry	3
JCCC	MATH 172	Trigonometry	3
KCKCC	MATH 0112	Trigonometry	2
Labette CC	MATH 125	Trigonometry	3
Neosho County CC	MATH 122	Plane Trigonometry	3
Pratt CC	MTH 183	Trigonometry	3
Seward County CC	MA 1183	Trigonometry	3
FHTC	Not Offered	Not Offered	
Manhattan Tech	Not Offered	Not Offered	
NCK Tech	Not Offered	Not Offered	
NWKTC	MATH 140	Trigonometry	3
SATC	MAT 155	Trigonometry	3
WATC	MTH 113	Trigonometry	3
ESU	MA 112	Trigonometry	2
FHSU	MATH 122	Plane Trigonometry	3
KSU	MATH 150	Plane Trigonometry	3
PSU	MATH 122	Plane Trigonometry	3
KU	MATH 103	Trigonometry	2
WSU	MATH 123	College Trigonometry	3
Washburn	MA 117	Trigonometry	3

Revised 10/12/17

TRIGONOMETRY - MAT1030 CORE OUTCOMES

Course Effective Date: Summer 2015
Outcome Approval Date: Fall 2014
Next Outcome Review Date: Fall 2019

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

1. Define the trigonometric functions using both a right triangle and the unit circle.
2. Define and interpret radian measurement. Recognize and apply circular functions as real-valued functions.
3. Solve for unknown sides/angles within right triangles and know trigonometric function values for special angles (multiples of $\pi/6$ and $\pi/4$).
4. Analyze the graphs of the six basic trigonometric functions and their arithmetic combinations using the concepts of period, phase shift, amplitude, and displacement.
5. Derive/verify trigonometric identities, including but not limited to double angle, half angle, angle sum, and angle difference identities.
6. Define, graph, and apply inverse trigonometric functions.
7. Solve equations involving trigonometric functions.
8. Find solutions of oblique triangles using the Law of Cosines or Law of Sines.
9. Solve applied problems including but not limited to vectors.
10. Derive the trigonometric form of complex numbers and perform calculations with them including products and quotients.
11. Translate between rectangular and polar coordinates and graph within the polar coordinate system.