

Course Name	Mathematics (2)							
Course Information	Course Code	Course No.	Course Level	Credit Hours	Weekly contact hours	Prerequisite(s)		
	2417 – 302	302	Preparatory Year	2	4	Mathematics (1)		
Course Track	<input type="checkbox"/> University Requirement <input checked="" type="checkbox"/> College Requirement <input type="checkbox"/> Specialized Core <input type="checkbox"/> Electives							
Course Description:								
<p>Mathematics (2) is a course offered by the Department of Basic Sciences. It is a 2-credit-hour course conducted through 4 hours along 8 weeks. This course provides an intensive study on some topics that are useful for students. Emphasis is placed on many topics; specifically: Matrices, Trigonometry, and Introduction to Calculus (Limits, Continuity, Differentiation, and Integration).</p>								
Course Outcomes:								
<ul style="list-style-type: none"> • Evaluate trigonometric and inverse trigonometric functions, and graph trigonometric functions in rectangular form. • Solve trigonometric equations and use them to solve trigonometric problems. • Use trigonometric identities in simplifying and solving equations. • Apply the basic operations on matrices and compute product of matrices. • Find determinant and inverse of a matrix and use it to solve systems of equations • Evaluate various limit problems both algebraically and graphically, and evaluate limits at infinity and infinite limits. • Check the continuity of various types of functions, • Differentiate various types of functions using the differentiation rules. • Find antiderivative of a function, and integrate various functions using the various integration methods. 								
Assessment Policy	Assignment	15%	Quiz	15%	Lab	0	Project	5%
	Midterm	25%	Final	40%	Others	0		
Textbook	Fundamentals of Mathematics Pearson, 2019-Custom edition for KFU							
References	1- Mathematics with Applications In the Management, Natural and Social Sciences, Thomas W. Hungerford, John P. Holcomb, Margeret L. Lial 2017 • Pearson 2- College Algebra and Trigonometry, Global Edition, 6/E Margaret L. Lial, John Hornsby, David I. Schneider, Callie Daniels 2017 • Pearson							

