

Program Number: Name			
Department:	MATHEMATICS		
Academic Year:	2022-2023		
Course Description:	concepts including arithmetic of and variation, measurement, g topics will be reinforced by the	echniques program begins with a review of fundamental operations. Some theoretical concepts and topics in proportion geometry, and trigonometry will be covered. These concepts and use of practical problems to make the current topic relevant to f business math pertaining to the construction field will be	
Total Credits:	3		
Hours/Week:	3		
Total Hours:	42		
Prerequisites:	There are no pre-requisites for this course.		
Corequisites:	There are no co-requisites for this course.		
Substitutes:	MTH142, MTH145		
Essential Employability Skills (EES) addressed in this course:	EES 4 Apply a systematic a EES 5 Use a variety of thin	cal operations accurately. approach to solve problems. iking skills to anticipate and solve problems. time and other resources to complete projects.	
Course Evaluation:	Passing Grade: 50%, D		
	A minimum program GPA of 2 for graduation.	.0 or higher where program specific standards exist is required	
Books and Required Resources:	Mathematics for theTrades - A Guided Approach by Carman Publisher: Pearson Edition: 11th ISBN: 9780134756967 Calculator-SharpEL-520XTB (available in the bookstore)		
Course Outcomes and	Course Outcome 1	Learning Objectives for Course Outcome 1	
Learning Objectives:		 1.1 Perform addition, subtraction, multiplication and division of whole numbers without the use of a calculator. 1.2 Recite and be able to create the multiplication times table 	

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apply to the trades.	 without the use of a calculator. 1.3 Perform arithmetic using order of operations. 1.4 Perform addition, subtraction, multiplication and division o fractions. 1.5 Perform addition, subtraction, multiplication and division o decimal numbers. 	
Course Outcome 2	Learning Objectives for Course Outcome 2	
and percentages and solve problems using a calculator as they apply to the trades.	2.1 Create ratios and proportions.2.2 Perform special applications of ratios and proportions.2.3 Solve trades related problems using ratios and proportions2.4 Create percentages.2.5 Solve trades related problems using percentages.	
Course Outcome 3	Learning Objectives for Course Outcome 3	
rates to do measurements and measurement conversions on trade-related problems.	 3.1 Apply ratios and conversion rates as they relate to conversions. 3.2 Work with various units of measurement such as Imperial/English/British, US customary, and the 3.3 SI Metric units. 3.4 Solve practical measurement conversion problems betwee various units of measure. 	
Course Outcome 4	Learning Objectives for Course Outcome 4	
algebraic equations.	 4.1 Perform arithmetic on signed numbers. 4.2 Work with exponents and square roots. 4.3 Add and subtract algebraic expressions. 4.4 Multiply and divide algebraic expressions. 4.5 Use scientific notation. 4.6 Solve word problems and algebraic expressions. 	
Course Outcome 5	Learning Objectives for Course Outcome 5	
problems related to area, perimeter, volumes of various geometric shapes, and solids.	Determine area, perimeter and volume of various geometric shapes and solids. 5.1 Perform angle measurement. 5.2 Work with polygons, triangles, hexagons, irregular polygons, circles, prisms, pyramids, cylinders, spheres, and cones. 5.3 Work with angles and triangles.	
Course Outcome 6	Learning Objectives for Course Outcome 6	
practical trade related	6.1 Use trigonometric ratios to solve trade related problems.6.2 Solve right triangles.6.3 Work with oblique triangles.	
Course Outcome 7	Learning Objectives for Course Outcome 7	
statistical information as	7.1 Read and create graphs.7.2 Use statistical tools, techniques and methods to perform data analysis.	

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Evaluation Process and Grading System:	Evaluation Type	Evaluation Weight
Graung System.	Assignments	30%
	Tests and Quizzes	70%
Date:	September 7, 2022	
Addendum:	Please refer to the course outline addendum on the Learnir information.	

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Management System for further