COURSE OUTLINE: MTH163 - PRE-TRADE/TECH MATH2

Prepared: Mathematics Department
Approved: Sherri Smith, Chair, Natural Environment, Business, Design and Culinary

Course Code: Title	MTH163: PRE-TRADES/TECHNOLOGY MATHEMATICS 2
Program Number: Name	4005: PRE-TRADES TECHNOLGY
Department:	MATHEMATICS
Semesters/Terms:	19W
Course Description:	This course is a continuation of MTH162-3 for Pre-trades and Technology students. Students will expand on their use of math study skills and problem solving strategies. The focus will be on meeting the student`s individual needs based on his or her personal goals. Topics of study may include: graphing linear relationships, quadratic, exponential and logarithmic equations, geometry, and trigonometry of right and oblique triangles with applications.
Total Credits:	3
Hours/Week:	3
Total Hours:	45
Prerequisites:	MTH162
Corequisites:	There are no co-requisites for this course.
Substitutes:	MTH161
Essential Employability Skills (EES) addressed in this course:	EES 3 Execute mathematical operations accurately. EES 4 Apply a systematic approach to solve problems. EES 5 Use a variety of thinking skills to anticipate and solve problems. EES 10 Manage the use of time and other resources to complete projects.
Course Evaluation:	Passing Grade: 50%, D

Course Outcomes and Learning Objectives:		
	Course Outcome 1	**Learning Objectives for Course Outcome 1**
	1. Implement the plan created in MTH162 to address any deficiencies in one`s own numeracy and math skills required to meet the entry level criteria of the trades and technology program of choice.	1.1 Manage time to allow for completion of plan. 1.2 Perform necessary tasks to meet the specified goals outlined in the plan. 1.3 Reflect on progress at regular time intervals. 1.4 Make adjustments to the plan as required. 1.5 Evaluate the successfulness of the plan and make contingency plans, if needed.
	Course Outcome 2	**Learning Objectives for Course Outcome 2**
	2. Explore some of the nuances associated with technical mathematics.	2.1 Perform calculations with exact and approximate numbers. 2.2 Round numbers. 2.3 Use scientific notation to represent large and small numbers. 2.4 Perform calculations involving multiple units of measure.
	Course Outcome 3	**Learning Objectives for Course Outcome 3**

	3. Employ a variety of technology to assist in meeting goals.	3.1 Make efficient use of a scientific calculator to perform calculations. 3.2 Use spreadsheets to help solve problems involving mathematics. 3.3 Use websites and applications as resources to help complete goals.
	Course Outcome 4	**Learning Objectives for Course Outcome 4**
	4. Solve problems involving mathematics.	4.1 Exhibit perseverance, ability, and confidence to use mathematics to solve problems 4.2 Use a variety of problem-solving strategies and exhibit logical thinking. 4.3 Work effectively with others to solve problems. 4.4 Estimate and check answers to problems and determine the reasonableness of results. 4.5 Communicate findings both in writing and orally using appropriate mathematical language and symbolism.

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight	Course Outcome Assessed
Assignments	30%	
MyMathTest Components	30%	
Tests (4)	40%	

Date: July 11, 2018

Please refer to the course outline addendum on the Learning Management System for further information.