



COURSE OUTLINE: MTH162 - PRE-TRADE/TECH MATH1

Prepared: Mathematics Department

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

Course Code: Title	MTH162: PRE-TRADES/TECHNOLOGY MATHEMATICS 1
Program Number: Name	4005: PRE-TRADES TECHNOLOGY
Department:	MATHEMATICS
Semesters/Terms:	18F
Course Description:	This first level mathematics course for the Pre-trades and Technology programs will allow students to establish their math preparedness level. Students will use a variety of math study skills and problem-solving strategies to become ready for college-level trades or technology math courses. Topics of focus include: fundamental concepts including arithmetic operations and concepts in measurement, ratio, proportion, percents and introductory algebra.
Total Credits:	3
Hours/Week:	3
Total Hours:	45
Prerequisites:	There are no pre-requisites for this course.
Corequisites:	There are no co-requisites for this course.
Substitutes:	MTH160
This course is a pre-requisite for:	MTH163
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. Recognize the importance of numeracy and math skills in trades and technology programs and employment.	1.1 Identify appropriate sources for obtaining information on numeracy and math skills required in various trades and technology programs and employment. 1.2 Build a vocabulary associated with numeracy and math skills required in trades and technology. 1.3 Interview a tradesperson discussing the use of numeracy and math skills. 1.4 Keep a log of numeracy and math skills references for a two week period. 1.5 Create a Wordle pictograph to display a summary of the log data. 1.6 Reflect on the importance of numeracy and math skills in trades and technology programs.



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	Course Outcome 2	Learning Objectives for Course Outcome 2
	2. Classify the numeracy and math skills required by various trades and technology programs of personal interest.	2.1 Develop, working with fellow students, an overall numeracy and math skills list for trades and technology programs for the Skills Table template. 2.2 Participate in selected discussion groups based on various trades and technology program clusters to help determine specific numeracy and math skills for the cluster. 2.3 Create a Skills Table, given a template, of numeracy and math skills for each of the trades and technology programs of interest.
	Course Outcome 3	Learning Objectives for Course Outcome 3
	3. Evaluate one's own current numeracy and math skills.	3.1 Complete a series of practice modules and quizzes using the MyMathTest software to gather information about current numeracy and math skills. 3.2 Work in groups to solve problems. 3.3 Conduct self and peer evaluations on use of problem solving strategies. 3.4 Create a portfolio of evidence gathered to evaluate one's own current numeracy and math skills. 3.5 Complete a Report Card assessing one's own current numeracy and math skills.
	Course Outcome 4	Learning Objectives for Course Outcome 4
4. Assess one's own current numeracy and math skills compared to those skills required by the trades and technology programs of interest.	4.1 Create a table comparing one's Report Card to the Skill Table for each of the trades and technology programs of personal interest. 4.2 Create list summarizing the deficiencies in numeracy and math skills for one's first choice program.	
Course Outcome 5	Learning Objectives for Course Outcome 5	
5. Create a plan 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.	5.1 Write clear, specific goals. 5.2 Determine the actions necessary to address any deficiencies in one's own current numeracy and math skills to meet the entry level criteria of the trades and technology program of choice. 5.3 Participate in peer review activities to critique draft goals and action plans. 5.4 Produce a document that outlines the plan.	

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.