

COURSE OUTLINE: MTH117 - BUSINESS MATHEMATICS

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

Course Code: Title	MTH117: BUSINESS MATHEMATICS				
Program Number: Name	2086: OFFICE ADMIN-EXEC				
Department:	MATHEMATICS				
Semesters/Terms:	19F				
Course Description:	The student will study fractions, decimals, percentages, ratio and proportion, and the metric system and conversion of units, applying each of these to business problems. The course concludes with an introduction to statistics, including preparing and interpreting graphs.				
	Administrative support staff employees are required to demonstrate basic math competencies both in their jobs and in their personal lives. Tasks ranging from spreadsheet creation and analysis through to calculation of invoices require a strong foundation in mathematical principles.				
Total Credits:	2				
Hours/Week:	2				
Total Hours:	30				
Prerequisites:	There are no pre-requisites for this course.				
Corequisites:	There are no co-requisites for this course.				
Substitutes:	MTH104, MTH107, MTH111, MTH114, MTH135, OEL629				
This course is a pre-requisite for:	OAD302				
Vocational Learning	2086 - OFFICE ADMIN-EXEC				
Outcomes (VLO's) addressed in this course:	VLO 1 Conduct oneself professionally and adhere to relevant legislation, standards and codes of ethics.				
Please refer to program web page for a complete listing of program outcomes where applicable.	VLO 2 Manage the scheduling, coordination and organization of administrative tasks and workflow within specific deadlines and according to set priorities.				
	VLO 3 Coordinate the collection, analysis, distribution and response to communications in the workplace to facilitate the flow of information.				
	VLO 6 Produce financial documents and reports by identifying and compiling relevant information and using accounting software.				
	VLO 8 Use interpersonal, leadership and client service skills to respond to diversity and to support the vision and mission of the organization.				
	VLO 9 Research, analyze and summarize information on resources and services and prepare summary reports with recommendations.				
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.				

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	EES 10 Manage the use of	EES 10 Manage the use of time and other resources to complete projects.					
Course Evaluation:	Passing Grade: 50%, D	Passing Grade: 50%, D					
Books and Required Resources:	Calculator - Sharp EL-520XTB (Available in Bookstore)						
Course Outcomes and Learning Objectives:	Course Outcome 1	Learning Objectives for Course Outcome 1					
	1. Perform operations with whole numbers, decimals, and fractions, with and without the use of a calculator, and apply these operations in problem solving situations.	 1.1 Define whole numbers. 1.2 Round whole numbers. 1.3 Estimate an answer. 1.4 Add, subtract, multiply, and divide whole numbers. 1.5 Find indicator words in application problems. 1.6 Use the four steps for solving application problems. 1.7 Read and write decimals. 1.8 Round decimals. 1.9 Add and subtract decimals. 1.11 Recognize types of fractions. 1.12 Convert mixed numbers to improper fractions and improper fractions to mixed numbers. 1.13 Write a fraction in lowest terms 1.14 Use the rules for divisibility. 1.15 Add and subtract like and unlike fractions. 1.16 Find the least common denominator. 1.17 Rewrite fractions with a common denominator. 1.18 Add and subtract mixed numbers. 1.20 Convert decimals with a common denominator. 1.20 Convert decimals to fractions and mixed numbers. 					
	Course Outcome 2 2. Apply concepts of percentage to solve problems.	Learning Objectives for Course Outcome 2 2.1 Write a decimal and fraction as a percent and a percent as a decimal and fraction. 2.2 Write a fractional percent as a decimal. 2.3 Know the three quantities of a percent problem. 2.4 Use the basic percent formula to solve for part, base, and rate. 2.5 Recognize the terms associated with base, rate, and part. 2.6 Find the percent of change. 2.7 Identify an increase or a decrease problem. 2.8 Solve application problems.					
	Course Outcome 3	Learning Objectives for Course Outcome 3					
	3. Apply the concepts of simple and compound interest to solve problems.	 3.1 Solve for simple interest. 3.2 Calculate maturity value. 3.3 Determine the number of days in a loan or investment period. 3.4 Define the basic terms used with notes. 3.5 Find the due date of a note. 3.6 Find the principal, rate, and time using the simple interest formula. 3.7 Decide on a period of compounding. 3.8 Use the formulas and tables to find compound amount a 					

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			compound interest. 3.9 Define the terms future value and present value. 3.10 Use tables to calculate present value.		
	Course Outcome 4 4. Use and convert units of measure. Course Outcome 5 5. Present and interpret quantitative information using descriptive statistics techniques.		Learning Objectives for Course Outcome 44.1 Use the International System of Units (SI).4.2 Evaluate and use the SI prefixes.4.3 Convert from one SI (metric) unit to another.4.4 Convert a quantity from a metric unit to a British unit or vice versa using a table of conversion.4.5 Convert international currency amounts to Canadian dollars, or vice versa.4.6 Use units of measure in applied situations.Learning Objectives for Course Outcome 5		
			5.1 Construct and analyze a frequency distribution.5.2 Construct and analyze bar, line, and circle graphs.5.3 Find the mean, median and mode of a list of numbers.5.4 Calculate a weighted mean.		
Evaluation Process and Grading System:	Evaluation Type	Evaluatio	n Weight		
	Assigned Work	20%			
	Tests	80%			
Date:	June 19, 2019				
Addendum:	Please refer to the information.	course out	line adder	dum on the Learning Management System for further	

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