

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:	18F		
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	EES 3 Execute mathematical operations accurately.		
Skills (EES) addressed in this course:	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 7 Analyze, evaluate, and apply relevant information from a variety of sources. EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals. EES 10 Manage the use of time and other resources to complete projects. EES 11 Take responsibility for ones own actions, decisions, and consequences. 	
Course Evaluation:	Passing Grade: 50%, D	
Other Course Evaluation & Assessment Requirements:	If a faculty member determines that a student is at risk of not being successful in their academic pursuits and has exhausted all strategies available to faculty, student contact information may be confidentially provided to Student Services in an effort to offer even more assistance with options for success. Any student wishing to restrict the sharing of such information should make their wishes known to the coordinator or faculty member.	

Books and Required Resources:

ON LINE ACCESS TO MYMATHLAB

Publisher: Pearson ISBN: 9780321199911

My MathLab Access code may be purchased at the Bookstore

Course Outcomes and Learning Objectives:

Course Outcome 1	Learning Objectives for Course Outcome 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. 1.10 Multiply and divide 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. 1.19 Multiply and divide fractions and mixed numbers. 1.20 Convert decimals to fractions and fractions to decimals.
Course Outcome 2	Learning Objectives for Course Outcome 2
2. Apply concepts of percentage to solve problems.	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.

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	Identify an increase or a decrease problem. 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 and compound interest. 3.9 Define the terms future value and present value. 3.10 Use tables to calculate present value.
Course Outcome 4	Learning Objectives for Course Outcome 4
Use and convert units of measure.	 4.1 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.
Course Outcome 5	Learning Objectives for Course Outcome 5
5. Present and interpret quantitative information using descriptive statistics techniques.	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	Evaluation Weight	Course Outcome Assessed
Assigned Work	20%	
Tests	80%	

Date:

June 22, 2018

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

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