COURSE OUTLINE

MTH125

Prepared: Mathematics Department   Approved: Sherri Smith

Course Code: Title	MTH125: BUSINESS MATHEMATICS
Program Number: Name	:
Department:	MATHEMATICS
Semester/Term:	18W
Course Description:	Students will study business math concepts such as statistics, graphing, percentage applications, currency exchange, simple and compound interest, annuities, income/expense statements, balance sheets and cash flow. Students will use these concepts in applications using spreadsheet software.
Total Credits:	3
Hours/Week:	3
Total Hours:	45
Substitutes:	OEL629
Essential Employability Skills (EES):	#3. Execute mathematical operations accurately. #4. Apply a systematic approach to solve problems. #5. Use a variety of thinking skills to anticipate and solve problems. #10. Manage the use of time and other resources to complete projects.
Course Evaluation:	Passing Grade: 50%, D
Evaluation Process and Grading System:	

Evaluation Type	Evaluation Weight
Assignments	40%
MyMathTest Components	20%
Tests (4)	40%

Course Outcomes and Learning Objectives:	**Course Outcome 1.** Perform basic operations. **Learning Objectives 1.**

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- Understand and apply the mathematical order of operations.
- Read and write decimal numbers.
- Round decimal numbers.
- Add, subtract, multiply and divide decimal numbers.
- Determine equivalent fractions.
- Determine common denominators.
- Add, subtract, multiply and divide fractional numbers.
- Convert fractions to decimals.
- Calculate the exponent of whole numbers.
- Estimate and approximate results.

Course Outcome 2.

Solve problems by applying fractions, decimals, and percents.

Learning Objectives 2.

- Convert decimal numbers to percentages and vice versa.
- Convert fractional numbers to percentages and vice versa.
- Determine percentages using a formula.
- Determine percentage increases and decreases using a formula.
- Solve problems involving sales tax, currency conversions, commissions, cash discounts, and trade discounts.

Course Outcome 3.

Use spreadsheet software, efficiently and effectively, to perform calculations and manipulate data.

Learning Objectives 3.

- Use the common components of Excel spreadsheets.
- Employ methods that allow changes in data to be made without have to adjust actual formulas.
- Use Excel to automate the concepts discussed in outcomes 1 and 2 above.

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Course Outcome 4.

Apply spreadsheet (Excel) concepts to solve business problems.

Learning Objectives 4.

- Construct and interpret line graphs, bar graphs, and pie charts using Excel.
- Solve problems involving simple interest calculations, including finding interest, principal, or time, future values, and present values.
- Calculate loan repayment schedules.
- Determine future values and present values with compound interest.
- Determine future value, present value, periodic rent (payment), and term of a simple annuity.
- Calculate an amortization schedule for a simple annuity.
- Calculate and interpret simple descriptive statistics including mean, median, mode, and standard deviation.
Perform using Excel a linear regression.

Date: Thursday, August 31, 2017

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