



<b>Division:</b>	Business	<b>Area:</b>	Business Math
<b>Course Number:</b>	BSMTH 101	<b>Course Name:</b>	Business Math
<b>Prerequisite:</b>	None		
<b>Corequisite:</b>	None		
<b>Hours Required:</b>	<b>Class:</b> 45	<b>Lab:</b>	<b>Credits:</b> 3

## Course Description/Purpose

This course covers practical application of addition, subtraction, multiplication, division, decimals, fractions, percentages, discounts, simple interest, compound interest, present value, discounting notes, interest on installment loans and amortized mortgage loans to the problems of everyday business and accounting.

## Major Units

- Fraction and Decimal Review
- Percentage
- Credit and Interest
- Basic Business Applications
- Accounting Applications
- Advanced Applications

## Educational/Course Outcomes

Student learning will be assessed by a variety of methods, including, but not limited to, quizzes and tests, journals, essays, papers, projects, laboratory/clinical exercises and examinations, presentations, simulations, portfolios, homework assignments, and instructor observations.

**Cognitive** Each student will be expected to *Identify/Recognize...*

- the components of solving word problems covering business applications with a minimum level of competency.
- fractions and decimals with a minimum level of competency.
- the elements of percentage with a minimum level of competency.
- the elements of markup with a minimum level of competency.
- the elements of long-term asset valuation with a minimum level of competency.
- the reason and necessity of borrowing from financial institutions by business with a minimum level of competency.
- the elements of a payroll system with a minimum level of competency.
- the elements of short term financing with a minimum level of competency.
- the process of inventory valuation with a minimum level of competency.
- the elements involved with the time value of money with a minimum level of competency.
- the elements of basic business statistics.

**Performance**

Each student will be expected to *Demonstrate/Practice...*

- analyze and solve word problems covering business applications with a minimum level of competency.
- addition, subtraction, multiplication and division of fractions and decimals with a minimum level of competency
- the ability to convert decimals to fractions and fractions to decimals and decimals to percentages and percentages to decimals with a minimum level of competency.
- base, rate and percentage calculations and to distribute overhead costs with a minimum level of competency.
- calculations of sales commissions and sales and purchases principles with a minimum level of competency.
- calculate and apply trade discounts and cash discounts with a minimum level of competency.
- compute markup based on cost and markup based on selling price with a minimum level of competency.
- prepare bank reconciliations in good form with a minimum level of competency.
- computation of simple interest and the ability to estimate simple interest with a minimum level of competency.
- calculate and apply bank discounts and the discounting of promissory notes with a minimum level of competency.
- calculate finance charges on installment loans, and complete amortization schedules with a minimum level of competency.
- calculate payroll computations with a minimum level of competency.
- calculation of inventory using LIFO, FIFO, Average Cost and LCM with a minimum level of competency.
- calculation of depreciation using SL, DDB, SYD methods and partial year with a minimum level of competency.
- calculation of compound interest and present value with a minimum level of competency.
- calculation and application of future and present value of annuities with a minimum level of competency.
- calculation of mean, median, mode, frequency tables, charts and graphs with a minimum level of competency.