J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: BUS 125   **Credits**: 3

Course Title: Applied Business Mathematics

Course Description: Applies mathematical operations to business process and problems such as wages and payroll, sales and property taxes, checkbook records and bank reconciliation, depreciation, overhead, distribution of profit and loss in partnerships, distribution of corporate dividends, commercial discounts, markup, markdown, simple interest, present values, bank discount notes, multiple payment plans, compound interest, annuities, sinking funds, and amortization. Lecture 3 hours per week.

General Course Purpose: This course provides students with a rapid review of basic mathematics and algebraic equations. The course aims to improve speed and accuracy, and to prepare students to solve personal and business math problems.

Course Prerequisites and Co-requisites:
Prerequisite: None

Student Learning Outcomes:
Upon completing the course, the student will be able to:
a. Solve equations and word problems;
b. Calculate percent changes;
c. Explain trade and cash discounts;
d. Calculate dollar markups and markdowns based on selling price;
e. Contribution margin and breakeven analysis to be calculated;
f.   Define compound interest and calculate effective interest rates;
g. Recognize, apply and calculate Time Value of Money problems;
h. Recognize and analyze basic financial reports; and
i.   Calculate basic statistical measures such as mean, median, mode, standard deviation.

Major Topics to Be Included:
a. Solving equations
b. Percentages with applications
c. Cash and trade discounts
d. Markups and markdowns
e. Simple and compound interest
f.   Present value
g. Analyzing financial statements

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