

Revised Fall 2016

BUS125

Applied Business Mathematics

COURSE OUTLINE

Prerequisites:

No prerequisites required.

Course Description:

Description Applies math to business processes and problems such as basic statistics and graphs; taxes; insurance; checkbook and cash records; wages and payrolls; depreciation and overhead; financial statements and ratios; commercial discounts; markup and markdown; bank discount; simple and compound interest; present value; sinking funds; annuities; multiple payment plans/amortization. Lecture 3 hours per week.

Semester Credits: 3 Lecture Hours: 3 Lab/Recitation Hours:

VIRGINIA WESTERN COMMUNITY COLLEGE
PO Box 14007
Roanoke, VA 24038
(540)-857-7273



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Course Outcomes

At the completion of this course, the student should be able to:

The following content goals will be addressed by the course. These goals are directly related to the performance objectives. By the conclusion of this course, students will be able to:

1. Understand Applications of percents in business applications
2. Apply discounts (trade and cash) and mark-ups and mark downs
3. Understand interest: simple and compound
4. Apply time value of money series: including PV, FV, annuities and mortgages
5. Introduce Business statistics



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Required Materials:

Computer with online accessibility

Textbook:

Textbook:	<u>Practical Business Math Procedures. Eleventh Edition</u>
Authors:	Jeffrey Slater
Publisher:	McGraw-Hill Irwin
Website:	www.mhhe.com/slater11e
Copyright:	2013
ISBN:	9780077819286

The following supplementary materials are required:

- Connect code
- Financial calculator: TI BAII Plus or equivalent



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Topical Description:

Chapter 5	Solving for the Unknown: A How-to-Approach for Solving Equations
Chapter 6	Percents and Their Applications
Chapter 7	Discounts: Trade and Cash
Chapter 8	Markups and Markdowns; Perishables and Breakeven Analysis
Chapter 10	Simple Interest
Chapter 11	Promissory Notes, Simple Discount Notes, and the Discount Process
Chapter 12	Compound Interest and Present Value
Chapter 13	Annuities and Sinking Funds
Chapter 15	The Cost of Home Ownership
Chapter 4	Banking
Chapter 22	Business Statistics

Other possible chapters to be covered and included on the semester tests:

Chapter 9	Payroll
Chapter 19	Sales, Excise, and Property Taxes
Chapter 20	Life, Fire, and Auto Insurance



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Notes to Instructors

(List information about optional topics, departmental exams, etc)

1. All topics should be covered
2. Optional topics are available if time permits
3. Cumulative departmental final exam is required

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