Course Discipline and Number: BUAD 104 **Year: 2024-2025**
Course Title: Business Mathematics **Credit Hours: 3**

Attendance Policy: To maintain good grades, regular attendance in class is necessary. Absence from class is considered a serious matter and absence never excuses a student from class work. It is the responsibility of all instructors to distribute reasonable attendance policies in writing during the first week of class. Students are required to comply with the attendance policy set by each of their instructors. Students are not penalized if they are unable to attend classes or participate in exams on particular days because of religious beliefs, in accordance with Chapter 161, Section 224-a of the Education Law of the State of New York. Students who plan to be absent from classroom activity for religious reasons should discuss the absence in advance with their instructors. See college catalog for more information.

Services for Students with Disabilities: It is the College's policy to provide, on an individual basis, appropriate academic adjustments for students with disabilities, which may affect their ability to fully participate in program or course activities or to meet course requirements. Students with disabilities should contact the Coordinator of Access and Equity Services, to discuss their particular need for accommodations. All course materials are available in alternate formats upon request.

Course Description

Designed to develop a thorough understanding and mastery of the arithmetic processes of business, with an emphasis on the application of principles to typical business problems. Topics include percents, solving for unknowns, discounts, markups and markdowns, payroll, simple and compound interest, credit cards, home ownership, depreciation, inventory, stocks, bonds, and mutual funds. Prerequisites: C or better grade in MATH 090 or appropriate assessment test score; RDNG 099 if required by placement testing. 3 Cr. (3 Lec.) Occasionally.

Course Context/Audience

This course is useful, but not required, for ACCT 101. It may be used as a BUAD elective if not otherwise required for a specific program. This is a very practical course which is necessary for any student who wishes to run any type of small business or to help solve everyday problems from buying a car or house to managing credit cards and retirement.

Basic Skills/Entry Level Expectations

Writing: W0 Course requires very limited or no writing.
Math: M2 Completed MATH 090 (if needed) - Course requires only the use of basic mathematical skills.
Reading: R2 Before taking this course, students must have a C or better in RDNG 099 or assessment indicating that RDNG 099 was not required.

Course Goals

Students will learn how to perform basic mathematical skills which relate to everyday retail business problems including trade and cash discounts, markups and markdowns, payroll, simple and compound interest, home ownership and investments.

Course Objectives/Topics

Objective/Topic	# Hours
Students will be able to solve rate, base, and portion percentage problems.	5 Hours
Students will be able to compute trade discounts, chain discounts, single equivalent discounts, cash discounts with ordinary, end-of-month, and receipt-of-goods dating.	5 Hours
Students will be able to compute markup based on cost and/or selling price, markdowns, and value of ending inventory using the average cost, FIFO, LIFO, retail, and gross profits methods.	6 Hours

Students will be able to compute simple interest using the Banker's rule and the exact interest rule.	4 Hours
Students will be able to compute partial payments and proceeds on discounted notes and drafts.	5 Hours
Students will be able to compute compound interest, carrying charges and interest on loans.	4 Hours
Students will be able to compute employee compensation based upon various wage and salary payment plans, Federal Income Tax withholding, and State and Federal unemployment insurance payments.	4 Hours
Students will be able to compute depreciation based on straight line, sum of the years digits, declining balance, units of production, and MACRS.	4 Hours
Students will be able to compute mortgage amortization schedules and installment loans.	4 Hours
Students will be able to distinguish various investment plans.	4 Hours

General Education Goals - Critical Thinking & Social/Global Awareness

CRITICAL THINKING OUTCOMES	HOW DOES THE COURSE ADDRESS THE OUTCOMES (Include required or recommended instructional resources, strategies, learning activities, assignments, etc., that must or could be used to address the goal/outcomes)
Students will be able to ➢ develop meaningful questions to address problems or issues. ➢ gather, interpret, and evaluate relevant sources of information. ➢ reach informed conclusions and solutions. ➢ consider analytically the viewpoints of self and others.	➢ Students work problems from the text and review solutions as a class. ➢ Students participate in class discussions of real world applications of topics from the text.
SOCIAL/GLOBAL AWARENESS OUTCOMES	HOW DOES THE COURSE ADDRESS THE OUTCOMES (Include required or recommended instructional resources, strategies, learning activities, assignments, etc., that must or could be used to address the goal/outcomes)
➢ Students will begin to understand how their lives are shaped by the complex world in which they live. ➢ Students will understand that their actions have social, economic and environmental consequences.	➢ Classroom discussions of topics from the text supplemented with news and Internet articles will help students explore their personal connection with the topics. ➢ Students may be asked to report on these topics as homework.

Instructional Methods
Traditional lecture style should be used in presenting material to students. Numerous homework problems should be assigned. Problems should be reviewed in class with the students participating by using the text and a calculator.

Methods of Assessment/Evaluation

Method	% Course Grade
Quizzes or Tests	70-75%
Homework	10-15%
Final Exam	10-15%

Text(s)

<u>Practical Business Math Procedures</u>, Slater, Jeffrey, 8th Edition, © 2006 McGraw-Hill-Irwin.
Required:

Bibliography

No print resources specified

Other Learning Resources

Audiovisual No resources specified
Electronic CD Rom that goes with the textbook
Other Baker Learning Center