DIVISION: Natural Sciences and Business

COURSE: BUS 1230 Math for Business and Finance

Date: Spring 2022

Credit Hours: 3

Complete all that apply or mark “None” where appropriate:
Prerequisite(s): None

Enrollment by assessment or other measure? ☐ Yes ☒ No
If yes, please describe:

Corequisite(s): None

Pre- or Corequisite(s): None

Consent of Instructor: ☐ Yes ☒ No

Delivery Method: ☒ Lecture 3 Contact Hours (1 contact = 1 credit hour)
☐ Seminar 0 Contact Hours (1 contact = 1 credit hour)
☐ Lab 0 Contact Hours (2-3 contact = 1 credit hour)
☐ Clinical 0 Contact Hours (3 contact = 1 credit hour)
☒ Online
☐ Blended
☒ Virtual Class Meeting (VCM)

Offered: ☒ Fall ☒ Spring ☒ Summer

CATALOG DESCRIPTION and IAI NUMBER (if applicable):
A review of the fundamental mathematical processes, fractions, and percentage. A study of discounts, commissions, depreciation, overhead, interest, bank discount, amortized mortgage loans, balance sheet ratios, statistical measures, financial statements, graphs, stocks and bonds, solving for the unknown, and time value of money.
ACCREDITATION STATEMENTS AND COURSE NOTES:
None

COURSE TOPICS AND CONTENT REQUIREMENTS:
(Not necessarily in this order.)
Solving for the Unknown
Future Value, Present Value
Ordinary Annuities and Annuity Due
PV of Annuity
Amortization Schedules
Insurance
Reconciling Bank Statement
Payroll
Business Statistics
Compound Interest
Percents
Sales, Excise and Property Taxes
Stocks, Bonds, and Mutual Funds

INSTRUCTIONAL METHODS:
Lecture
Discussion
Hands-On Activities
Demonstrations
Group Projects
Simulation
Case Projects: both individual and team approach.
Presentations: both student presentations and outside professionals.
PowerPoint

EVALUATION OF STUDENT ACHIEVEMENT:
Tests
Final Exam
Homework
Quizzes
Attendance
Participation
Simulation checks

INSTRUCTIONAL MATERIALS:
Textbooks
Instructor’s Manual
Textbook Web Page
Listserv for Instructors
Simulation Exercises
Internet

Resources
Wall Street Journal
LEARNING OUTCOMES AND GOALS:
Institutional Learning Outcomes
☐ 1) Communication – to communicate effectively;
☒ 2) Inquiry – to apply critical, logical, creative, aesthetic, or quantitative analytical reasoning to formulate a judgement or conclusion;
☐ 3) Social Consciousness – to understand what it means to be a socially conscious person, locally and globally;
☐ 4) Responsibility – to recognize how personal choices affect self and society.

Upon completion of the course, the student will be able to:
1. Be able to use whole numbers to dissect and solve word problems.
   1.1 Read, Write, and Round whole numbers
   1.2 Add and subtract whole numbers
   1.3 Multiply and divide whole numbers

2. Be able to use Fractions.
   2.1 Conversion of all fractions
   2.2 Add and subtract fractions
   2.3 Multiply and divide fractions

3. Be able to use Decimals.
   3.1 Add, subtract, multiply, and divide decimals
   3.2 Convert decimals into fractions and fractions into decimals

4. Understand the Banking Process.
   4.1 Read and understand a bank statement
   4.2 Reconcile a checkbook

5. Be able to solve for the unknown in algebraic form.
   5.1 Solve algebraic equations
   5.2 Solve word problems using algebra

6. Be able to use Percents and their applications.
   6.1 Convert fractions and decimals to percents
   6.2 Solve word problems using the Portion formula

7. Be able to use Trade and Cash Discounts
   7.1 Be able to calculate a single and chain trade discount
   7.2 Be able to calculate cash discounts, credit terms, and partial payments
8. Be able to calculate Markups and Markdowns.
   8.1 Be able to calculate markups based on cost
   8.2 Be able to calculate markups based on price
   8.3 Be able to calculate markups using perishable items

9. Be able to calculate Payroll.
   9.1 The student will be able to calculate payroll deductions

10. Be able to calculate Simple Interest, Compound Interest, and Simple Discount Notes.

11. Be able to calculate Cost of Home Ownership.
   11.1 Create an amortization schedule
   11.2 Understand different types of mortgages and monthly payments

12. Be able to calculate Inventory and Overhead
   12.1 Be able to calculate inventory costs using FIFO, LIFO, Weighted Average, and Specific Identification

13. Be able to calculate Sales, Excise, and Property Tax.

14. Be able to calculate Insurance
   14.1 Calculate Life Insurance
   14.2 Calculate Fire Insurance
   14.3 Calculate Auto Insurance

15. Be able to calculate Stocks, Bonds, and Mutual Funds
   15.1 Know how to buy and sell stock with commission
   15.2 Know the difference between limit order and market order

16. Be able to calculate Business Statistics
   16.1 Know how to calculate and use mean, median, and mode
   16.2 Know how to create a frequency distributions