

COURSE OUTCOME MATRIX

COURSE SYLLABUS

PART 2 of 3

Course Number and Title	BU 115 – BUSINESS MATHEMATICAL APPLICATIONS
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Credit Hours	3
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Course Description	This course is designed for students planning a career in a business field and focuses specifically on applications in these fields. Students will develop problem-solving skills through the study and application of equations and formulas, including the concepts of ratio and proportion, financial statements, statistics of frequency distribution and graphs, all basics of depreciation, payroll, taxes and insurance, annuities, stocks and bonds, bank reconciliation, pricing, and inventory.
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Prerequisite(s) and/or Corequisite(s)	
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Required Textbooks/References/Course Materials:

Business Mathematics With Access	14th	Clendenen, Gary	Pearson	0135195969
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	General Education Outcomes
1	Utilize written and verbal language to discuss and comprehend information, incorporating a variety of technologies, such as text, data, and images (written language, verbal language, and information technology).
2	Identify and interpret relevant information in order to formulate an opinion or conclusion (critical thinking).
3	Demonstrate and communicate computational methods and mathematical reasoning in a variety of formats (using words, tables, graphs, mathematical equations, etc., as appropriate) (quantitative literacy and fluency).
4	Communicate in appropriate ways with those who are culturally diverse (intercultural competence).

	Program Outcomes
1	Students will apply critical-thinking, problem-solving, and decision-making skills required to function effectively in a business environment.
2	Students will demonstrate the ability to communicate effectively in diverse business situations.
3	Students will demonstrate an understanding of globalization and the impact of cultural, economic, regulatory, and social environments on businesses and organizations.
4	Students will apply core business concepts of the functional areas of business (accounting, economics, finance, management, and marketing) in evaluating business issues.
5	Students will demonstrate the knowledge and application of ethical concepts and behaviors in the workplace.
6	Students will evaluate, analyze, and interpret information using quantitative methods to make sound business decisions.

	Course Outcomes (CO)	Bloom's Domain for CO (C, A, P), Category, and Level	Program Outcome(s)	Written Language	Verbal Language	Information Technology	Critical Thinking	Quantitative Literacy and Fluency	Intercultural Competence
1	Apply basic mathematical techniques including addition, subtraction, multiplication, division, decimals, fractions, and percentages to solve business application problems.	C - APPLYING (3)	1,4,6	0	0	0	2	2	0
2	Analyze, compute, and reconcile banking and financial statements, payroll calculations, loans and interest formulas, taxes, insurance, and investments.	C - ANALYZING (4)	1,4,6	0	0	0	2	2	0
3	Analyze and calculate the mathematical formulas involved in buying and selling of goods and services.	C - ANALYZING (4)	1,4,6	0	0	0	2	2	0
4	Apply statistical techniques to business situations and problems.	C - APPLYING (3)	1,4,6	0	0	0	2	2	0
5	Translate descriptive problems into mathematical formulas and then calculate solutions.	C - APPLYING (3)	1,4,6	0	0	0	2	2	0

Bloom's Domain Legend

C = Cognitive
A = Affective
P = Psychomotor

General Education Outcome Legend

2 = Included and Measurable
1 = Introduced and/or Minimally Addressed and Not Measurable
0 = Not included

Approved: May 2021
Reviewed: November 11, 2021