

EFFECTIVE: SEPTEMBER 2004 CURRICULUM GUIDELINES

A.	Division:	Instruction	Eff	fective Date:		September 2004		
B.	Department / Program Area:	Commerce & Business Admin. Business	Re	vision	X	New Course		
	· ·		If l	Revision, Section(s)		C, H, J		
			Re	vised:		, ,		
			Da	te of Previous Revision	n:	2002-09		
			Da	te of Current Revision	:	2004-09		
C:		D:				E :		
	BUSN 1			ss Mathematics		3		
	Subject & Cour	se No. Descrip	Descriptive Title		Sen	Semester Credits		
F:	Calendar Description:							
		cover the mathematical interpret					h	
	applications to managerial decision-making. Topics covered will include linear and non-linear							
	equations, time value of money, marginal and break-even analysis, and introduction to statistics.							
			1					
G:	Allocation of Contact Hours to Type of Instruction		Н:	Course Prerequisites:	:			
	/ Learning Set	Learning Set		BC Principles of Math 11 or DVST 0410 or				
				BC Principles of Ma	ath 11	or DVST 0410 or		
			I:	Course Corequisites:				
			1.	Course Corequisites.				
				Nil				
				1111				
			J:	Course for which this	s Cours	se is a Prerequisite		
						-		
				FINC 2210 and FINC 2340 and BUSN 2254 and				
				BUSN 2429 and OA	DM 4	50		

M: Course Objectives / Learning Outcomes

The student will be able to:

- 1. Demonstrate the ability to algebraically derive and solve equations in functional and general form for problems in business.
- 2. Demonstrate the ability to solve financial problems involving calculation of present and future value, payments, interest rate and compounding periods.
- 3. Demonstrate the ability to determine break-even and equilibrium positions for problems (linear and non-linear) in business.
- 4. Demonstrate the ability to organize and present data, and calculate descriptive statistics for single and grouped data.

N: Course Content:

[approximate time allocation in weeks]

- 1. [2] Algebra Review: ratio, proportion and percent, linear equations and inequalities, factoring, exponents and radicals, polynomials, quadratic equations, problem-solving logic (and, or, else, also, etc.).
- 2. [1] Graphing of Linear Functions: including use of slope and intercept.
- 3. [1] Graphing of Quadratic Functions: including vertex, maximum/minimum, intercepts.
- 4. [1] Deriving and Graphing Exponential and Log Functions: exponential growth, logs to base 2, 10, e, change of base formula.
- 5. [4] Time Value of Money: simple and compound interest, ordinary simple annuities (PV, FV, PMT, i, n), nominal, effective, equivalent rates, amortization, sinking funds, financial calculator applications, timelines.
- 6. [1] Systems of Linear Equations: intersections of lines (in 2 and 3 variables).
- 7. [2] Cost-Volume-Profit Analysis: break-even by volume, percent capacity, and \$ value, linear and quadratic (parabolic functions).
- 8. [1] Statistics: mean (single and grouped data), median, mode, range, standard deviation (sample and pop), Coefficient of Variation, Normal distribution, Empirical Rule.
- 9. [1

Date: November 2004

Q:	Means of Assessment			
	Term Exams (3-4) Final Exam Assignments Participation	50%-60% 30% 05%-15% <u>00%-15%</u> <u>100%</u>		
R:	Prior Learning Assessment and Recognition: specify whether course is open for PLAR			
	Challenge exams only.			
Course Designer(s): David Waddington		Education Council / Curriculum Committee Representative		
Dean / Director: Rosilyn G. Coulson		Registrar: Trish Angus		

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Date: November 2004