

EFFECTIVE: SEPTEMBER 2004 CURRICULUM GUIDELINES

А.	Division:	Instruction	Ef	fective Date:		September 2004		
B.	Department / Program Area:	Commerce & Business Admin. Business	Re	evision	X	New Course		
	r rogram r nou.	Dusmess	If	Revision, Section(s)		C, H, J		
				evised:		0, 11, 0		
				ate of Previous Revisio	n:	2002-09		
				ate of Current Revision		2004-09		
C:		D :				E:		
	BUSN 1	1330	Busine	ss Mathematics		3		
	Subject & Course No. Descrip		ptive Ti	Title Sem		nester Credits		
F:	Calendar Description:							
		cover the mathematical interpr	etation	of fundamental busin	ess eco	nomic concepts with		
	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.							
	•			•				
G:	Allocation of Contact Hours to Type of Instruction H: Course Prerequisi			Course Prerequisites	:			
	/ Learning Set			-				
				BC Principles of M	ath 11	or DVST 0410 or		
			I:	Course Corequisites:				
				NT*1				
				Nil				
			J:	Course for which thi	Cour	sa is a Proroquisito		
			J:		s Cours	se is a rielequisite		
					FINC 2210 and FINC 2340 and BUSN 2254 and			
				BUSN 2429 and OA				

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] Graphing Data1497 Td Bive, equivf1 Tc 0.0016 Tw 22.46712 0 Td[(um)11(e, perc)7(ent capa)7(c)1(ity, and

BUSN 1330 Business Mathematics

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 Recogni Challenge exams only.	tion: specify whether course is open for PLAR				

Course Designer(s): David Waddington

Education Council / Curriculum Committee Representative

Dean / Director: Rosilyn G. Coulson

Registrar: Trish Angus

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