

EFFECTIVE: SEPTEMBER 2002

CURRICULUM GUIDELINES

A:	Division:	Instruction	Date:	November 2001		
B :	Department/ Program Area:	Commerce & Business Admin. Business Management	New Course	Revision X		
			If Revision, Section(s) Revised:	Н		
			Date Last Revised:	June 2000: P November 1999		
C:	BUSN 3	30 D:	Business Mathematics	E: 3		
	Subject & Cou	irse No.	Descriptive Title	Semester Credits		
F:	Calendar Description: This course will cover the mathematical interpretation of fundamental business economic 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 Types of Instruction/Learning Settings Primary Methods of Instructional Delivery and/or		H: Course Prerequisites: B.C. Principles of Math 11 or D' effective September 2002, Engli better or equivalent.	VST 410 or equivalent and ish 12 with a grade of "C" or		
	Learning Settings: Lectures and Seminars Number of Contact Hours: (per week / semester	L Course Corequisites:				
	for each descriptor) Lecture: 3 Hrs. Seminar: 1 Hr. Total: 4 Hrs. Number of Weeks per Semester: 15 Weeks X 4 Hrs per week = 60 Hrs.		J. Course for which this Course is FINC 210 and FINC 340 and B OADM 450	a Prerequisite: USN 254 and BUSN 429 and		
			K. Maximum Class Size:			
			35			
L:	PLEASE INDICATE: Non-Credit College Credit Non-Transfer X College Credit Transfer: Requested Granted X					

SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bccat.bc.ca)

BUSN 330 Business Mathematics

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:	1. 2.	Demo probl Demo	onstrate the ability to algebraically derive and solve equations in functional and general form for ems in business.				
	2.	Demo	instructor the shility to solve financial problems involving calculation of present and future value				
	3	pavm	Demonstrate the ability to solve financial problems involving calculation of present and future value, payments, interest rate and compounding periods.				
	 Demonstrate the ability to determine break-even and equilibrium positions for problems (linear 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.				
2	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.				
6	9.	[1]	Graphing Data: bar, pie, and line graphs, setting scale.				

O: Methods of Instruction

Lecture/Seminar

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Р:	Textbooks and Materials to be Purchased by Students:				
	Harshbarger, R.J. and Reynolds, J.J. <u>Mathematical Applications for the Management, Life and Social</u> <u>Sciences</u> , Latest Edition, Houghton Mifflin.				
	Business Calculator: One of: or	Texas Instruments BAII+ Texas Instruments BA35 Hewlett Packard 10B Sharp EL-733a			
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: Dave Waddington

Education Council/Curriculum Committee Representative

Dean: Jim Sator

Registrar: Trish Angus

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