

EFFECTIVE: SEPTEMBER 2002

CURRICULUM GUIDELINES

A:	Division:	Instructional	Date:	February 2002		
В:	Department/ Program Area:	Commerce & Business Admin. Business Management	New Course	Revision X		
			If Revision, Section(s) Re-	vised: H		
			Date Last Revised:	1998-01: H 1997-05: H,N,O,P,R		
C:	BUSN 4	31 D:	Business Statistics II	E: 3		
	Subject & Cou	rse No.	Descriptive Title	Semester Credits		
F:	Calendar Descri	ption:				
	This course covers advanced topics in quantitative analysis including: analysis of variance, forecasting, trend analysis using linear and multiple regression, probability, decision analysis, and linear programming. Spreadsheets will be utilized in problem-solving.					
G:	Allocation of Co	ontact Hours to Types of	H: Course Prerequisites:			
	Primary Methods of Instructional Delivery and/or Learning Settings: Lecture and Seminar			and effective September 2002, of "C" or better or approved		
			L. Course Corequisites:			
	Number of Cont for each descripe	act Hours: (per week / semester tor)	nil			
	Lecture:	3 Hrs.	J. Course for which this Co	ourse is a Prerequisite:		
	Seminar: Total:	1 Hr. 4 Hrs.	nil			
	Number of Weeks per Semester:					
	15 Weeks X 4 Hours Per Week = 60 Hours		K. Maximum Class Size:			
			35			
L:	PLEASE INDICATE:					
	Non-Credit					
	College Credit Non-Transfer					

	Пс	ollege Credit Transfer: Requested Granted						
	SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bccat.bc.ca)							
M	Coura	Objectives/Learning Outcomes						
M:	Cours	e Objectives/Learning Outcomes						
	The s	The student will be able to:						
	1.	1. carry out interval estimation, hypothesis testing and other analyses related to variance;						
	2.							
	3.							
	4.	develop forecasts using price indices, smoothing and regression;						
	5.	analyse decisions using probability theory;						
	6.	. use computer spreadsheets in solving statistical problems.						
N:	Course Content							
	1.	Review of Statistics: Chi-squared distribution, interval estimation and hypothesis testing, 2 populations.						
	2.	Inference About Population Variance: Multinominal population, contingency tables, Poissan and Normal Distributions.						
	3.	Tests of Goodness of Fit and Independence.						
	4.	Analysis of Variance.						
	5.	Linear Regression: Least Squares Method, \mathbf{r} and \mathbf{r}^2 , variance, \mathbf{t} and \mathbf{f} tests, estimation and prediction,						
		computer solution, residuals.						
	6.	Multiple Regression: Least Squares Method, multiple \mathbf{r}^2 , \mathbf{t} and \mathbf{f} tests, multicollinearity, estimation and						
		prediction, qualitative variables, residuals.						
	7.	Index Numbers: price indices, computing an aggregate index, deflating a series.						
	8.	Forecasting and Time Series: components, smoothing, trend projection, seasonality, projection using regression.						
	9.	Decision Analysis: structuring the problem, decision-making with and without probabilities.						
	10.	Linear Programming: formulating problems, graphical solutions, computer solutions, sensitivity						
		analysis.						
0:	Metho	Methods of Instruction						
	Laatus	es and Computer Seminars.						
	Lectur	es and Computer Seminars.						
P:	Textb	poks and Materials to be Purchased by Students						
	Anderson, D.R., Sweeney et al. <u>Statistics for Business and Economics</u> , Latest Ed.							
		West Publishing Company						
	Suppl	ement: Linear Programming						
	Excel	spreadsheet applications text as selected by instructor:						
	Berk, K. N. and P. Casey. <u>Data Analysis with Microsoft Excel</u> , Latest Ed.							
	Course Technology, Inc.							
	Middleton, M.R. <u>Data Analysis Using Microsoft Excel</u> , Latest Ed. Duxbury Press							
	Neufeld, J. L. <u>Learning Business Statistics with Microsoft Excel</u> , Latest Ed.							

	Prentice Hall					
	Business Calculator: one of:		A II+ <u>OR</u> Texas Instruments BA35 OB <u>OR</u> Sharp EL-733a			
Q:	Means of Assessment					
	Final Examination Term Examination (1-3) Computer Lab Test Assignments Participation	30% 40% -50% 05% - 10% 15% - 25% 0% - 05% 100%				
R:	R: Prior Learning Assessment and Recognition: specify whether course is open for PLAR nil					
Cour	se Designer(s): Joe Ilsever		Education Council/Curriculum Committee Representative			
Dean/Director: Jim Sator			Registrar: Trish Angus			

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Date: January 2002