

EFFECTIVE: SEPTEMBER 2004 CURRICULUM GUIDELINES

А.	Division: Instruction Ef		Effective Date:		September 2004		
B.	Department / Program Area:	Commerce & Business Admin. Accounting Management	Re	evision	X	New Course	
C: F:	BUSN Subject & Cour Calendar Descri This course cov	D: 3431 rse No. Descript ption: rers advanced topics in quantitativ	Re Da Da Da Da Da Da Da Da Da Da Da Da Da	ysis including: analy	: Sen sis of v		
	trend analysis using linear and multiple regression, probability, decision analysis, and linear programming. Spreadsheets will be utilized in problem-solving.						
G:	Allocation of Contact Hours to Type of Instruction / Learning Settings Primary Methods of Instructional Delivery and/or Learning Settings:		H:	Course Prerequisites: BUSN 2429 or BUSN 430 and English 12 with a letter grade of "C" or better or approved equivalent			
	Lectures and Seminars		I:	I: Course Corequisites:			
	Number of Contact Hours: (per week / semester for each descriptor) Lecture: 3 Hours Seminar: 1 Hour Total: 4 Hours Number of Weeks per Semester: 15 Weeks X 4 Hours per Week = 60 Hours			Nil			
			J: K:	Course for which thi Nil Maximum Class Size 35		se is a Prerequisite	
L:	PLEASE INDICATE: Non-Credit College Credit Non-Transfer X College Credit Transfer: SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bccat.bc.ca)						

M :	Cou	Course Objectives / Learning Outcomes				
	The 1. 2. 3. 4. 5. 6.	ident will be able to: arry out interval estimation, hypothesis testing and other analyses related to variance; onduct tests related to goodness of fit and independence; ind relationships between data sets using regression techniques; evelop forecasts using price indices, smoothing and regression; nalyze decisions using probability theory; se computer spreadsheets in solving statistical problems.				
N:	Cou	urse 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:	Met	ethods of Instruction				
	Lect	ectures and computer seminars.				
P:	Tex	tbooks and Materials to be Purchased by Students				
	And	nderson, D.R., Sweeney et al. Statistics for Business and Economics, Latest Ed. West Publishing Company				
	Sup	Supplement: Linear Programming				
	Exce	Accel 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				
	Bus	iness Calculator: one of: Texas Instruments BA II+ Texas Instruments BA35 Hewlett Packard 10B Sharp EL-733a				

BUSN 3431 Business Statistics II

Q:	Means of Assessment			
	Final Examination Term Examination (1-3) Computer Lab Test Assignments Participation	30% 40%-50% 5%-10% 15%-25% <u>0%- 5%</u> 100%		
R:	Prior Learning Assessment and Recognition: specify whether course is open for PLAR Nil			

Course Designer(s): David Waddington

Education Council / Curriculum Committee Representative

Dean / Director: Rosilyn G. Coulson

Registrar: Trish Angus

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