

# **EFFECTIVE: SEPTEMBER 2004 CURRICULUM GUIDELINES**

Α.	Division:	Instructional	Effective Date:	September 2004			
В.	Department / Program Area:	Commerce & Business Admin. Business Management	Revision	X New Course			
			If Revision, Section(s) Revised:	C,F,H,J			
			Date of Previous Revision: Date of Current Revision:	April 2003 September 2004			
C:	BUSN 2	2429 <b>D</b> : BUSINESS	STATISTICS	<b>E</b> 3			
<u> </u>	Subject & Cou		tive Title	Semester Credits			
F:	Calendar Descri		on to statistics. Students will lea	arn to solve problems using			
	This course will provide students with an introduction to statistics. Students will learn to solve problems using computer spreadsheets. Topics include measures of central tendency and dispersion, probability, sampling, normal and binomial distributions, confidence intervals and hypothesis testing and regression analysis. Students will not receive credit for BUSN 2429 and BUSN 430.						
G:	Allocation of Contact Hours to Type of Instruction / Learning Settings  Primary Methods of Instructional Delivery and/or Learning Settings:  Lecture and Seminar  Number of Contact Hours: (per week / semester for each descriptor)		<b>H:</b> Course Prerequisites:				
			CISY 1110 and (BUSN 1330 or MATH 12 or				
			SURVEY MATH 12 or MATH 1115), and ENGLISH 12 with a grade of "C" or better, or approved equivalent.				
			<b>I:</b> Course Corequisites:				
			Nil				
	Lecture: Seminar:	3 Hours 1 Hour	<b>J:</b> Course for which this C	Course is a Prerequisite			
	Total: 4 Hours  Number of Weeks per Semester:  15 Weeks X 4 Hours Per Week = 60 Hours		BUSN 3431 and MARK 4483				
			K: Maximum Class Size:	: Maximum Class Size:			
			35	35			
L:	PLEASE INDICATE:						
	Non-Cred	it					
	College C	redit Non-Transfer					
	X College C	redit Transfer	Requested: X Gra	anted:			
	SEE BC TRAN	SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bccat.bc.ca)					

### M: Course Objectives / Learning Outcomes

At the end of the course, the successful student should be able to:

- 1. collect statistical data using appropriate sampling techniques;
- 2. organize statistical data and calculate measures of central tendency and variation;
- 3. calculate the probability of events when they are mutually exclusive, independent and dependent;
- 4. use binomial and normal distribution to make probability estimates;
- 5. set up confidence intervals for population means and proportions;
- 6. use sample information to test statements or claims about parameters;
- 7. use computer spreadsheets to solve statistical problems;
- 8. use simple regression to determine significance of relationship between two variables.

#### **N:** Course Content:

- 1. Descriptive Statistics: frequency distributions, graphical displays, measures of central tendency, measures of dispersion.
- 2. Probability: experiments, counting rules, assigning probabilities, events, complement, exclusion, intersection, union, addition law, conditional probability.
- 3. Discrete Probability Distributions: expected value and variance, binomial distribution.
- 4. Continuous Probability Distributions: uniform and normal probability distributions.
- 5. Sampling Distributions: random sampling, sampling distribution of sample mean and sample proportion.
- 6. Interval Estimation: means and proportions, small and large samples, determining sample size.
- 7. Hypothesis Testing: formulating and testing a research hypothesis, 1 and 2 tailed tests about sample mean and proportion, Type 1 and 2 error.
- 8. Statistical Inference with Two Populations (independent samples): interval estimation and hypothesis tests for difference between two means and between two proportions.
- 9. Computer Analysis with Excel Spreadsheets: creation of spreadsheets, histograms, frequency tables, scatter charts, interval estimates, and use of probability distribution functions.
- 10. Simple Linear Regression: least squares, model and assumption, R-Squared, prediction.

## **O:** Methods of Instruction

Lectures and seminars.

## P: Textbooks and Materials to be Purchased by Students

Anderson, D.R., Sweeney et al. Statistics for Business and Economics, Latest Ed. South-Western (Thomson).

Business Calculator: one of:

- Texas Instruments BAII+
- Texas Instruments BA35
- Hewlett Packard 10B
- Sharp EL-733a

Date: October 2004

Q:	Means of Assessment				
	Final Exam Term Examinations (2-3) Computer Lab Test Assignments (6-12) 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				
	No.				
Course Designer(s): George Stroppa			Education Council / Curriculum Committee Representative		
Dean / Director: Jim Sator			Registrar: Trish Angus		

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Date: October 2004