

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	s) Revised: H		
			Date Last Revised:	1997-05: new course		
C:	BUSN 42		Business Statistics	E: 3		
<u> </u>	Subject & Course No.		Descriptive Title	Semester Credits		
F:	Calendar Description: This course will provide students with an introduction to forecasting and statistics. Students will learn to solve problems using computer spreadsheets. Topics include: forecasting, measures of central tendency and dispersion, probability, sampling, normal and binomial distributions, confidence intervals and hypothesis testing. Students will not receive credit for BUSN 429 and BUSN 430.					
G:	Allocation of Contact Hours to Types of Instruction/Learning Settings		H: Course Prerequisites	Course Prerequisites:		
	Primary Methods of Instructional Delivery and/or Learning Settings:		MATH 12 or MA 2002, English 12 v	USN 330 or MATH 12 or SURVEY TH 115) and effective September with a grade of "C" or better or		
	Lecture and Seminar		approved equivale	ent.		
	Number of Contact Hours: (per week / semester for each descriptor)		I. Course Corequisites	:		
	Lecture: Seminar:	3 Hrs. 1 Hr.	nil			
	Total:	4 Hrs.	J. Course for which the	is Course is a Prerequisite:		
	Number of Weeks per Semester: 15 Weeks X 4 Hours Per Week = 60 Hours		MARK 483			
			K. Maximum Class Siz	Maximum Class Size:		
			35			
L:	PLEASE INDICATE:					
	Non-Credit College Credit Non-Transfer					
	College Cre	College Credit Transfer: Requested Granted				
	SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bccat.bc.ca)					

BUSN 429 Business Statistics Page 2 of 3

M: Course Objectives/Learning Outcomes The student will 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. devise a simple linear forecast.

N: Course Content

- 1. Forecasting: use of simple linear algebra to forecast using two points, use of CPI to deflate a time series, components of a time series.
- 2. Descriptive Statistics: frequency distributions, graphical displays, measures of central tendency, measures of dispersion.
- 3. Probability: experiments, counting rules, assigning probabilities, events, complement, exclusion, intersection, union, addition law, conditional probability.
- 4. Discrete Probability Distributions: expected value and variance, binomial distribution.
- 5. Continuous Probability Distributions: uniform and normal probability distributions.
- 6. Sampling Distributions: random sampling, sampling distribution of sample mean and sample proportion.
- 7. Interval Estimation: means and proportions, small and large samples, determining sample size.
- 8. Hypothesis Testing: formulating and testing a research hypothesis, 1 and 2 tailed tests about sample mean and proportion, Type 1 and 2 error.
- 9. Statistical Inference with Two Populations (independent samples): interval estimation and hypothesis tests for difference between two means and between two proportions.
- 10. Computer Analysis With Excel spreadsheets: creation of spreadsheets, histograms, frequency tables,

DATE: February 2002

BUSN 429 Business Statistics Page 3 of 3

scatter charts, interval estimates, and use of probability distribution functions.

P: Textbooks and Materials to be Purchased by Students

Anderson, D.R., Sweeney et al. <u>Statistics for Business and Economics</u>, Latest Ed. West Publishing Co.

Excel spreadsheet applications text as selected by instructor from following list:

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 Newfeld, J.L. <u>Learning Business Statistics with Microsoft Excel</u>, Latest Ed. Prentice Hall.

Business Calculator: one of: Texas Instruments BA II+

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

Q: Means of Assessment

Term Examinations (2-3)	40% - 50%
Computer Latest	5% - 10%
Assignments (6-12)	15% - 25%
Final Examination	30%
Participation	0% - 5%
	100%

R: Prior Learning Assessment and Recognition: specify whether course is open for PLAR

No.

Course Designer(s): Joe Ilsever	Education Council/Curriculum Committee Representative		
Dean/Director: Jim Sator	Registrar: Trish Angus		

DATE: February 2002