

A: Division: **INSTRUCTIONAL** Date: **MAY 1997**
 B: Faculty: **COMMERCE AND BUSINESS ADMINISTRATION** New Course:
 Program: **BUSINESS** Revision of Course Information form: **JUNE 1996**
 C: **BUSN 430** D: **BUSINESS STATISTICS** E: **3**

Subject & Course No. Descriptive Title Semester Credit

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.

Summary of Revisions:
 1997-05 Sections: N
 1996-06 Sections: M,N,R
 1995-05 Sections: F,H,J,M,N,O,P,Q,R

G: Type of instruction: Hrs per week

Lecture:	3	Hrs.
Laboratory:		Hrs.
Seminar:	1	Hrs.
Clinical Experience:		Hrs.
Field Experience:		Hrs.
Practicum:		Hrs.
Shop:		Hrs.
Studio:		Hrs.
Student Directed Learning:		Hrs.
Other (Specify)		
Total:	4	Hrs.
Semester Total (4 x15wks):	60	Hrs.

H: Course Prerequisites:
CISY 110 and (BUSN 330 or Academic MATH 12 or SURVEY MATH 12)

I: Course Corequisites:
 nil

J: Course for which this Course is a Prerequisite:
MARK 483

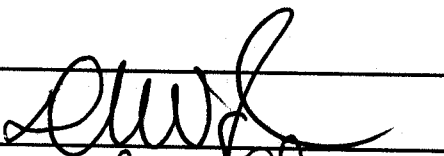
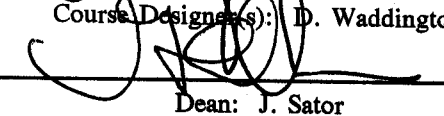
K: Maximum Class Size:
35

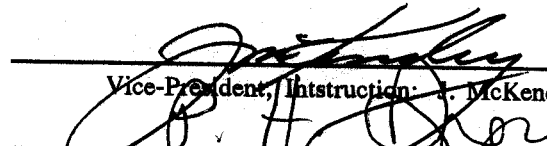
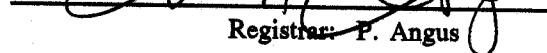
L: College Credit Transfer X
 College Credit Non-Transfer
 Non-Credit

M: Transfer Credit: Requested:
 Granted: X

Specify Course Equivalents or Unassigned Credit as appropriate:

BCOU **MATH 102 (3)**
 SFU **BUEC 232 (3)**
 UBC
 UNBC **MATH 242 (3)**
 UVIC **STAT 255 (1.5)**
 Other: **CGA: QM2 (with BUSN 431)**


 Course Designer(s): **D. Waddington**

 Dean: **J. Sator**


 Vice-President, Instruction: **J. McKendry**

 Registrar: **P. Angus**

N: TEXTBOOKS AND MATERIALS TO BE PURCHASED BY STUDENTS

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

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

Berk, K.N and P. Casey. Data Analysis with Microsoft Excel, Latest Ed. Course
Technology Inc.

Middleton, M.R. Data Analysis Using Microsoft Excel, Latest Ed. Duxbury Press

Newfeld, J.L. Learning Business Statistics with Microsoft Excel, Latest Ed.
Prentice Hall.

Business Calculator: one of: Texas Instruments BA II+
Texas Instruments BA35
Hewlett Packard 10B
Sharp EL-733a

O. COURSE OBJECTIVES

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 the binomial and normal distributions 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 software in solving statistical problems;
8. devise a sales forecast.

P. COURSE CONTENT

[Approximate time allocation in weeks]

1. [2] Index Numbers, Time Series and Forecasting: indices, trend projection,

seasonality.

2. [2] Descriptive Statistics: frequency distributions, graphical displays, measures of central tendency, measures of dispersion.
3. [2] Probability: experiments, counting rules, assigning probabilities, events, complement, exclusion, intersection, union, addition law, conditional probability.
4. [2] Discrete Probability Distributions: Expected value and variance, Binomial distribution.
5. [2] Continuous Probability Distributions: Uniform and Normal probability distributions.
6. [1] Sampling Distributions: random sampling, sampling distribution of sample mean and sample proportion.
7. [2] Interval Estimation: means and proportions, small and large samples, determining sample size.
8. [1] Hypothesis Testing: formulating and testing a research hypothesis, 1-Tailed tests about a sample mean, Type 1 error.

Q. METHOD OF INSTRUCTION

Lectures and Seminars.

R: COURSE EVALUATION

Computer Lab Examination	5 %-10 %
Term Examinations (2-3)	40 %-50 %
Final Examination	30 %
Assignments	15 %-25 %
Participation	<u>0 %- 5 %</u>
	<u>100 %</u>

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