

Course Information

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A:	Division:	INSTRUCTIONAL			* .	Date:	JANU.	ARY 1998
B:	Faculty:	COMMERCE AND ADMINISTRATION		NESS		New Course:		
	Program:	ACCOUNTING MA	NAG	EMENT		Revision of Course Information form:	ı	MAY 1997
C:		BUSN 431	•	D:	BUSINE	SS STATISTICS II E:		3
	Subject & Course No.				Descriptive Title Semester Credit			
F:	Calendar Description: This course covers advanced 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 prosolving.				e, e ur	Summary of Revisions: 1998-01 Sections: H 1997-05 Sections: H,N,O,P,R		
G:	Type of ir	nstruction: Hrs per week			H:	Course Prerequisites:		
	• •	Lecture:	3	Hrs.		BUSN 430 or BUSN 429		
		Laboratory:		Hrs.		DUSIN 430 OF DUSIN 429		
		Seminar:	1		I:	Course Corequisites:		
	. (Clinical Experience:		Hrs.				
		Field Experience:		Hrs.		nil		
		Practicum:		Hrs.	J:	Course for which this Cours	o is a Deservi	
		Shop: Studio:		Hrs. Hrs.	•	Course for which this Cours	ie is a Prerec	juisite:
	Student	Directed Learning:		Hrs.		nil		
		Other (Specify)						
	•	Total:	4	Hrs.	K:	Maximum Class Size:		
	0	·				35		
	Semester	Total (4 x 15 wks):	60	Hrs.				
L:		College Credit Transfer			M:	Transfer Credit:	Requested:	X
	Coll	ege Credit Non-Transfer					Granted:	
					Specify Co	ourse Equivalents or Unassigne	d Credit as a	ppropriate:
		Non-Credit						rrr
					BCOU			
					SFU			
					UBC	Paragraphic Company		
					UNBC UVIC			
	0				Other:	CGA:QM2 (with BUSN 429	or RUSN 43	W.
	DIL					Q=/	/	<u>., </u>
	Course D	esigner(s): D. Waddingtor	1	<u></u>		Vice-President, Instruction	J. McKend	
****		a V	-			H.H.) Wickend	шу
		Dean: J. Sator				Registrar: D. A	ingus)	

N: TEXTBOOKS AND MATERIALS TO BE PURCHASED BY STUDENTS

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

Supplement: 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. Data Analysis Using Microsoft Excel, Latest Ed. Duxbury Press Neufeld, 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. carry out interval estimation, hypothesis testing and other analyses related to variance;
- 2. conduct tests related to goodness of fit and independence;
- 3. find relationships between data sets using regression techniques;
- 4. develop forecasts using price indices, smoothing and regression;
- 5. analyze decisions using probability theory;
- 6. use computer spreadsheets in solving statistical problems.

P: <u>COURSE CONTENT</u>

- 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, r and r², variance, t and f tests, estimation and prediction, computer solution, residuals.
- 6. Multiple Regression: Least Squares Method, multiple r², t and 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.

Q: METHOD OF INSTRUCTION

Lectures and Computer Seminars.

R: COURSE EVALUATION

Final Examination	30%
Term Examination (1-3)	40%-50%
Computer Lab Test	5%-10%
Assignments	15%-25%
Participation	<u> 0%- 5%</u>

100%