



EFFECTIVE: JANUARY 2009 CURRICULUM GUIDELINES

A. Division: **Education** Effective Date: **January 2009**

B. Department / Program Area: **Commerce & Business Admin. Accounting Management** Revision New Course

If Revision, Section(s) Revised: **H**

Date of Previous Revision: **September 2004**

Date of Current Revision: **August 2008**

C: **BUSN 3431** D: **Business Statistics II** E: **3**

Subject & Course No. Descriptive Title Semester Credits

F: Calendar Description:

This course covers advanced topics in 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 problem-solving.

<p>G: Allocation of Contact Hours to Type of Instruction / Learning Settings</p> <p>Primary Methods of Instructional Delivery and/or Learning Settings:</p> <p>Lectures and Seminars</p> <p>Number of Contact Hours: (per week / semester for each descriptor)</p> <p>Lecture: 3 Hours Seminar: 1 Hour Total: 4 Hours</p> <p>Number of Weeks per Semester:</p> <p>15 Weeks X 4 Hours per Week = 60 Hours</p>	<p>H: Course Prerequisites:</p> <p>BUSN 2429 or BUSN 430</p> <hr/> <p>I: Course Corequisites:</p> <p>Nil</p> <hr/> <p>J: Course for which this Course is a Prerequisite</p> <p>Nil</p> <hr/> <p>K: Maximum Class Size:</p> <p>35</p>
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L: PLEASE INDICATE:

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

SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bctransferguide.ca)

<p>M: Course Objectives / Learning Outcomes</p> <p>The student will be able to:</p> <ol style="list-style-type: none"> 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>N: Course Content:</p> <ol style="list-style-type: none"> 1. Review of Statistics: Chi-squared distribution, interval estimation and hypothesis testing, 2 populations. 2. Inference About Population Variance: Multinomial population, contingency tables, Poisson and Normal Distributions. 3. Tests of Goodness of Fit and Independence. 4. Analysis of Variance. 5. Linear Regression: Least Squares Method, r and r^2, variance, t and f tests, estimation and prediction, computer solution, residuals. 6. Multiple Regression: Least Squares Method, multiple r^2, 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.
<p>O: Methods of Instruction</p> <p>Lectures and computer seminars.</p>
<p>P: Textbooks and Materials to be Purchased by Students</p> <p>Anderson, D.R., Sweeney et al. <u>Statistics for Business and Economics</u>, Latest Ed. West Publishing Company</p> <p>Supplement: Linear Programming</p> <p>Excel spreadsheet applications text as selected by instructor:</p> <p style="padding-left: 40px;">Berk, K. N. and P. Casey. <u>Data Analysis with Microsoft Excel</u>, Latest Ed. Course Technology, Inc.</p> <p style="padding-left: 40px;">Middleton, M.R. <u>Data Analysis Using Microsoft Excel</u>, Latest Ed. Duxbury Press</p> <p style="padding-left: 40px;">Neufeld, J. L. <u>Learning Business Statistics with Microsoft Excel</u>, Latest Ed. Prentice Hall</p> <p>Business Calculator: one of:</p> <p style="padding-left: 40px;">Texas Instruments BA II+</p> <p style="padding-left: 40px;">Texas Instruments BA35</p> <p style="padding-left: 40px;">Hewlett Packard 10B</p> <p style="padding-left: 40px;">Sharp EL-733a</p>

Q: Means of Assessment	
Final Examination	30%
Term Examination (1-3)	40% -50%
Computer Lab Test	5% -10%
Assignments	15% -25%
Participation	<u>0% - 5%</u>
	<u>100%</u>
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: **Robert Buller**

Registrar: **Trish Angus**

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