Douglas College

EFFECTIVE: SEPTEMBER 2004
CURRICULUM GUIDELINES

A.	Division:	**Instructional**	Effective Date:		September 2004		
B.	Department / Program Area:	**Commerce & Business Admin. Business**	Revision	**X**	New Course		
			If Revision, Section(s) Revised:		**C,H,M,P**		
			Date of Previous Revision:		**January 1999**		
			Date of Current Revision:		**April 2004**		

C:	**D:**	**E:**
ECON 4495	**Introduction to Econometrics**	**3**
Subject & Course No.	Descriptive Title	Semester Credits

F: Calendar Description:

This course builds on the students' knowledge of statistics and introduces them to econometric techniques. Topics covered include linear regression, multiple regression and the problems in regression analysis. Emphasis will be placed on application of the methods discussed in lecture.

G: Allocation of Contact Hours to Type of Instruction / Learning Settings

Primary Methods of Instructional Delivery and/or Learning Settings:

Lectures

Number of Contact Hours: (per week / semester for each descriptor)

Lectures: 4 Hours

Number of Weeks per Semester:

15 Weeks X 4 Hours per Week = 60 Hours

H: Course Prerequisites:

BUSN 2429 and ECON 1150 and ECON 1250

I: Course Corequisites:

Nil

J: Course for which this Course is a Prerequisite

Nil

K: Maximum Class Size:

35

L: PLEASE INDICATE:

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

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. estimate relationships between data utilizing regression techniques;
2. conduct tests related to goodness of fit and independence;
3. explain the potential problems encountered when using regression analysis;
4. develop forecasts using price indexes, smoothing and regression;
5. apply the techniques to economic problems.

N: Course Content:

1. Basic concepts of regression analysis.
2. Specification: assumptions of the simple regression model, log-linear, double log formation, etc.
3. The method of ordinary least squares (OLS).
4. The normality assumption.
5. Interval estimation and hypothesis testing.
6. Prediction in the linear regression model.
7. Functional form in the variables.
8. Multiple linear regression: specification.
9. Multiple linear regression: estimation (OLS).
10. Goodness of fit.
11. Interval estimation and hypothesis testing.
12. Linear coefficient restrictions.
13. Functional forms in the variables.
14. Dummy variable regressors and covariance analysis.
15. Errors in multiple regression (OPT).
16. Index numbers.
17. Forecasting and time series.

O: Methods of Instruction

Material will be presented in a lecture format.

P: Textbooks and Materials to be Purchased by Students

To be chosen by the instructor from:

- Gujarati, Damodar. Basic Econometrics, Latest Ed. Toronto: Irwin Publishing.
- Kennedy, Peter. A Guide to Econometrics, Latest Ed. The MIT Press.
- Wooldridge, J. Introductory Econometrics, Latest Ed. South Western.

Q: Means of Assessment

Minimum of 3 evaluations, none of which will exceed 40%, for a total of 100%.

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

No.

Course Designer(s): **Les Marshall**

Education Council / Curriculum Committee Representative

Dean / Director: **Rosilyn G. Coulson**

Registrar: **Trish Angus**

Date of Revision: April 2004