

A: Division: **INSTRUCTIONAL** Date: **JANUARY 1999**
 B: Faculty: **COMMERCE AND BUSINESS ADMINISTRATION** New Course: **X**
 Program: **BUSINESS** Revision of Course Information form:
 C: **ECON 495** *0061* D: **INTRODUCTION TO ECONOMETRICS** E: **3**

Subject & Course No.

Descriptive Title

Semester Credit

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.

Summary of Revisions:

G: Type of instruction: Hrs per week

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

H: Course Prerequisites:
BUSN 429

I: Course Corequisites:
Nil

J: Course for which this Course is a Prerequisite:
Nil

K: Maximum Class Size:
35

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

M: Transfer Credit: Requested:
 Granted:

Specify Course Equivalents or Unassigned Credit as appropriate:

 BCOU
 SFU
 UBC
 UNBC
 UVIC
 Other:

Roslyn Coulson
 Course Designer(s): Roslyn Coulson

Dean: J. Sator

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

Registrar: P. Angus

N: TEXTBOOKS AND MATERIALS TO BE PURCHASED

Gujarati, Damodar. Basic Econometrics, latest ed. Toronto: Irwin Publishing.

Kennedy, Peter. A Guide to Econometrics, latest ed. The MIT Press.

O: COURSE OBJECTIVES

The student will 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.

P: 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.

Q: METHOD OF INSTRUCTION

Material will be presented in a lecture format.

R: COURSE EVALUATION

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

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