

A: Division: **INSTRUCTIONAL** Date: **NOVEMBER 1998**
 B: Faculty: **COMMERCE AND BUSINESS** New Course: **X**
ADMINISTRATION
 Program: **BUSINESS** Revision of Course
 Information form:

C: **ECON 495** D: **INTRODUCTION TO** E: **3**
ECONOMETRICS

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:
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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: Hrs.	H: Course Prerequisites: BUSN 430 <hr/> I: Course Corequisites: Nil <hr/> J: Course for which this Course is a Prerequisite: Nil <hr/> K: Maximum Class Size: 35
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L: College Credit Transfer <input type="checkbox"/> College Credit Non-Transfer <input checked="" type="checkbox"/> Non-Credit <input type="checkbox"/>	M: Transfer Credit: Requested: <input type="checkbox"/> Granted: <input type="checkbox"/> Specify Course Equivalents or Unassigned Credit as appropriate: BCOU * SFU * UBC * UNBC * UVIC * Other:
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Dean: J. Sator

Registrar: P. Angus

N: TEXTBOOKS AND MATERIALS TO BE PURCHASED

Gujarati, Damodar. Basic Econometrics, latest ed. McGraw-Hill Book Company.

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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