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GRANDE PRAIRIE REGIONAL COLLEGE

DEPARTMENT OF ARTS, EDUCATION and COMMERCE

ECONOMICS 3990

INTRODUCTORY ECONOMETRICS

Instructor: EBBY ASLANI
Office: C 423
Phone: 539-2973
Office Has: Mon., Wed., Fri. 11:00 - 12:00

Course Objectives:

This course has an elementary focus and intended for students who had basic elementary courses in statistics and mathematics, introductory and intermediate courses in economics. To understand how economists combine economic theory, real world data, mathematical and statistical tools in order to learn about economic behaviour. Topics include types of data (time series cross sectional), probability distributions, expected values, variances and covariances, estimations, hypothesis testing, simple and multiple regression models and dynamic models.

Prerequisites MA 1130, MS 3010/3120, EC 2810 and EC 2820 or consent of instructor.

There will be an hour lab

Textbooks: Learning and Practicing Econometrics , Griffiths, Carter, and Judge , Wiley & Son, 1993.

The Computer Handbook for Econometrics, R. Carter Hill, Wiley & Son, 1993

SPSS 6.1 for Windows, Student Version, 1994.

** you may find it useful to review the following texts:

Basic Econometrics, 2nd. ed., D. Gujarati, McGraw-Hill, , 1988.

Any introductory statistics for business and economics

Student Evaluation:

4 Assignment	20%	Mid-Term	20%
Term Paper	20%	Final Exam	40%

Course Outline:

Why Is Econometrics Necessary?	Ch. 1
The Foundations of Estimation and Inference	
Some Basic Ideas: Statistical Concepts for Economists	Ch. 2
Statistical Inference I & II:	
Estimating the Mean and Variance of a Population	Ch. 3
Interval Estimation and Hypothesis Tests for the Mean of a Normal Population	Ch. 4
The Simple Linear Statistical Model	
Simple Regression: Economic and Statistical Model Specification and Estimation	Ch. 5
Inference in the Simple Regression Model:	
Estimator Sampling Characteristics and Properties	Ch. 6
Interval Estimation, Hypothesis Testing, and Prediction	Ch. 7
The Simple Linear Statistical Model: Choosing the Functional Form, Reporting Result, and Carrying Through an Econometric Analysis	Ch. 8
General Linear Statistical Model	
Model Specification and Estimation	Ch. 9
Inference in the General Linear Statistical Model	Ch. 10
Combining sample and Nonsample Information and Further Applications of the General Linear Statistical Model	Ch. 11
Econometric Topics	
Dummy variables and Varying Coefficient Models	Ch. 12
Collinear Economic Variable	Ch. 13
Large Sample Theory and Models with Random Regressions	Ch. 14
Linear Statistical Models with a General Error Covariance Matrix	
Heteroskedastic Errors	Ch. 15
An Autocorrelated Error Model	Ch. 16
An Introduction to Simultaneous Equation Econometric Models	Ch. 18

**** Due to the limited time, we may not be able to cover all of the above, but we will try.**