

**School of Analytical Studies & Information Technology
Atkinson College (Economics), York University**

**ECON 3210: Use of Economic Data
Course Outline — Summer 2005**

Course Director: **Syed A. Basher**

Office Hours: **Wednesday, 4:45pm to 5:45pm** and by appointments

Office Location: **Vari Hall 1091**

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Course Schedule: **M & W 6:00pm to 9:00pm;**

Venue: **TEL 0016**

Course Web: <http://dept.econ.yorku.ca/~basher/econ3210.htm>

Course Description

This course introduces the theory and practice of empirical analysis of economic models. Starting with a review of statistical concepts, the course presents tools to quantify economic relationships involving two (simple classical linear regression analysis) or more than two variables (multiple classical linear regression analysis) and to test their significance. The course then extends the problems of estimation and inference to situations in which each of the assumptions underlying the classical linear regression models is not satisfied. The course relies on the use of data sets and statistical software packages to show how linear regression analysis is applied.

Grading and other details

There will be one group assignment, one midterm, and one final exam. The date of the midterm exam will be announced in the class. Final exam is scheduled by the registrar office and is usually available by third week of May. The final letter grade will be determined with the use of the following weights:

Assignment	20%
Midterm	30%
Final	50%
Total	100%

There is **no make-up examination** for a missed midterm, students absent from the midterm for valid reasons may have the final carry **80 percent**. **Late submission of assignment is strictly prohibited**. The grades may be scaled to conform with the regulations of the York University.

Textbook: “Undergraduate Econometrics” by R. Carter Hill, William E. Griffiths, and George G. Judge., 2nd ed. John Wiley & Sons, Inc., 2000.

Supplementary material: “Using Excel for Undergraduate Econometrics” by Karen Gutermuth and R. Carter Hill, 2nd ed. John Wiley & Sons, Inc., 2001.

Important Note

Conduct that violates the ethical or legal standards of the University community or of one's program or specialization may result in serious consequences. Students should look at the SENATE POLICY ON ACADEMIC HONESTY found in the following locations: The New Students' Handbook (pp. 93-98) and on the Web: <http://www.yorku.ca/secretariat/legislation/senate/acadhone.htm> You are encouraged to familiarize yourself with this Senate legislation.

Course Content

- Chapter 1. An Introduction to Econometrics
- Chapter 2. Some Basic Probability Concepts
- Chapter 3. The Simple Linear Regression Model: Specification and Estimation
- Chapter 4. Properties of the Least Squares Estimators
- Chapter 5. Inference in the Simple Regression Model
- Chapter 6. The Simple Linear Regression Model
- Chapter 7. The Multiple Regression Model
- Chapter 8. Further Inference in the Multiple Regression Model
- Chapter 9. Dummy (Binary) Variables
- Chapter 10. Nonlinear Models
- Chapter 11. Heteroskedasticity
- Chapter 12. Autocorrelation

Final Remarks

It is assumed that students have taken courses in the principles of economics, elementary statistics, and one semester of calculus. Students with a weaker mathematical background can do well though, provided they are prepared to do sufficient work. Familiarity in Excel is an asset. Lack of prerequisites may not be used as a basis for appeal. Past exam papers are not available.