Examining Econ Data & Models
Eco 311
Miami University
Spring 2005

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Hours: W - 9-11:30 and Tues, Thurs 2-3:30
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Course Description:
Introduction to the use of linear regression techniques for examining economic data and evaluating economic models. Topics include hypothesis testing, dummy variables, forecasting and limited dependent variable models. Sources of Economic data are explored. Applications to topics in economics are stressed.

Textbooks:

Course Outline:
I. Introduction. Ch. 1
   • Statistics, Economics, and Econometrics
II. Properties of Estimators
   • Unbiasedness
   • Efficient
   • Consistent
III. Classical Regression and Hypothesis Tests
   • Simple Regression(Ch 3)
   • Properties of estimators (Ch 4)
   • Testing Hypothesis about the regression model. (Ch. 5)
   • Functional Form (Ch 6)
   • Multiple Regression (Ch 7)
   • Advanced tests (Ch 8)
IV. Topic with the Multivariate Regression Model
   • Dummy Variables (Ch. 9)
   • Non-Linear Regressions (Ch 10)
V. Non-Ideal Conditions
   • Heteroscedasticity - Ch. 11
   • Serial Correlation - Ch. 12
Grading and Testing:

Course Grades will be based upon the following four items and point values:

1. Homework 33 pts.
2. Midterm #1 100 pts.
3. Midterm #2 100 pts.
4. Final Exam 100 pts.

Homework will be given throughout the semester and will involve using the program E-Views on the Miami SBA computer system. A student version of EViews is included with the Using EViews book.

The two Midterm Exams will be on February 24 and April 7. The final exam will be during exam week. Each exam will have a take-home portion.