

ECNG140, Applied Econometrics, Spring 2008

Prof. Kim

Office Hours: Monday 12:30-2:30 PM, Wednesday 1:30-2:30 PM, and *by* appointments.

Office: 315 Lake Hall

Gujarati, Damodar N., Basic Econometrics, New York: McGraw-Hill Higher Education, fourth edition, 2003.

Main emphasis of this course is the applications of regression techniques to various aspects in economics. For computer analysis, we will use the SAS program available at Northeastern computer center. There will be numerous computer homework, a midterm, and a two-hour final exam. No late homework will be accepted without official *medical* excuses. The midterm will be a technical paper analyzing a SAS regression result. The final exam will cover all lecture materials presented in the semester. The overall grade will be a weighted average of the homework(15%,) midterm (25%) and the final exam (60%.)

Those who wish to refresh their statistics for regression analysis may consult the Gujarati's companion book for undergraduates.

Gujarati, Damodar N., Essentials of Econometrics, New York: McGraw-Hill, any edition.

Lectures: (all chapters indicated below refer to Gujarati's Basic Econometrics.)

- 1 Introduction, Overall View of Regression Analysis Chs. 1,2,3
- 2 Multiple Regression Analysis: The Estimation, Ch. 7.
- 3 Multiple Regression Analysis: The Inference, Ch. 8.
- 4 Dummy Variable Regression Models, Ch. 9.
- 5 Multicollinearity, Ch. 10.
- 6 Heteroscedasticity, Ch. 11
- 7 Autocorrelation, Ch. 12.

Midterm

- 8 Econometric modeling: Model Specification and Diagnostic Testing, Ch. 13.
- 9 Nonlinear Regression Models, Ch. 14.
- 10 Dynamic Econometric Models: Distributed Lag Models, Ch. 17.
- 11 Simultaneous Equation Models, Ch.18
- 12 The Identification Problem of the Simultaneous Models, Ch.19
- 13 Estimation of the Simultaneous Models, Ch. 20

Two hour final exam.