Economics 410
Introductory Econometrics
Professor:Christopher Taber
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TA OH: Suga, Tues. 3:00-5:00, Pinzon, Wed. 1:00-3:00

Course Description: The purpose of this course is to help students understand how to interpret economic data. It will focus on the issues that arise in using this type of data, and the methodology for solving these problems. The focus of the course is on regression analysis. Specific topics and extensions will include multivariate regression, dummy variables, heteroskedasticity, serial correlation, and instrumental variables. Problem sets will provide practical experience in addressing some of these issues using actual economic data.

Prerequisites: Math 221 and Econ 310

Textbook: *Introductory Econometrics: A Modern Approach 4e*, by Jeffrey Wooldridge. The class will follow the text fairly close, though I will emphasize different material than the text.

Statistical Software: Stata

Evaluation:

Midterm 1	20%
Midterm 2	20%
Problem Sets	20%
Final	40%

The midterms will be held on Thurs. March 3 and Tuesday April 12

Improvement will be rewarded. More weight will be placed on the final for students who show significant improvement between the midterms and final.

Lecture notes as well as problem sets and data sets will be available from my web site which is given above.

Problem sets will be due on thursdays.

Students are strongly encouraged to work with others on problem sets, however students **must** write up results by themselves.

Topics:

1. Statistics Review (Appendix B and C)

2. Univariate Regression Model (Chapt. 2)

3. Multivariate Regression Model (Chapt. 3-6)

4. Regression with Dummy Variables (Chapt. 7)

5. Instrumental Variables and Simultaneous Equations (Chapt. 15-16)

6. Heteroskedasticity, Time Series, and Panel Data (Chapt. 8,10-14)