Econometrics (01:200:322:01)

Spring 2015 New Brunswick
Time: MW 4:30-5:50 pm
Location: CAC HH-A7
Instructor: Sungkyung Lee
Email: slee@econ.rutgers.edu
Office Location: CAC NJ Hall 425
Office Hours: TBA

Course Description:
Using Mathematical and Statistical knowledge, obtained from prerequisite courses, this Econometrics course will allow one to analyze Economics in an empirical way. That is, Econometrics enables to combine statistical tools and economic theories so that one can study the relationship between economic variables or confirm that a model/theory is a better one than the alternatives based on a certain loss function.

This class will consist of two parts—lectures covering Econometrics’ theoretical aspects and occasional computer sessions using EVIEWS. After successfully completing this course, students are expected to be able to understand empirical readings and do critical reading. Econometric knowledge also can be applied to other fields, such as finance, engineering, sociology, psychology, and so on.

Prerequisite:
Introduction to Microeconomics (220:102), Introduction to Macroeconomics (220:103), Calculus I (640:135), and Introduction to Statistics (960:211 or 960:285)

Course Schedule:
1. Introduction (Chapter 1)
2. Review of Statistical Concepts (Chapter 2 and Chapter 3)
3. The Simple Linear Regression Model (Chapters 4, 5, and 17)

**Midterm 1: Feb 25th In-Class**

4. The General Linear Regression Model (Chapters 6, 7, and 18)

5. Non-linear effects in Regression models (Chapter 8)

6. Assessing Regression Models (Chapter 9)

**Midterm 2: Apr 8th In-Class**

7. Additional Topics in Regression Analysis

8. Topics in Time Series Econometrics (Chapters 14-16)

**Final: May 8th 4:00-7:00 pm (Cumulative)**

**Textbook:** (strongly recommended)


In addition to this textbook, we will be using *MyEconLab* throughout the semester. You can buy the bundle of the textbook and an access to MyEconLab either online or at a bookstore. If you have the book, then you only need to purchase an access to MyEconLab.

**Software:**

This class will use EViewS. I'll assume that students haven't been exposed to this software. However, over the semester, I expect you to follow my instruction and practice using it by yourselves so that you are able to finish a decent final computer project.

You can use EViewS in any computer labs on campus or even access it through Rutgers Apps once you have an activated NetID. Or you can purchase a student version of this software ([http://www.ihsmarketplace.com/collections/student-version](http://www.ihsmarketplace.com/collections/student-version)).

**Grading Assessment:**

MyEconLab assignments and computer project 30%
Midterm1 20%
Midterm2 20%
Final 30%

85≤A
80≤B^+<85
70≤B<80
65≤C^+<70
55≤C<65
50≤D<55
F<50

Important Notes:

- I will regard academic integrity as one of basic virtues that educated students should have. I strongly recommend to take a look at academic integrity policy (http://academicintegrity.rutgers.edu/files/documents/AI_Policy_9_01_2011.pdf) before handing in your project and exams.

- There is No make-up exam in principle unless you can prove your urgent case with an official form.

- No electronic devices allowed during lectures.

- Economics majors should achieve a C or higher.