



The Islamic University of Gaza  
Faculty of Commerce

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Place & Time: Q408, S: 3:00-6:00pm

## **Econometrics & Quantitative Analysis, MDEC 6301**

**Fall Semester, 2012**

### ***Course Syllabus***

#### ***Course Overview***

Decision making for planning, policy, and management relies mainly on the collection, analysis, and interpretation of *quantitative* data. These tasks are performed through statistical methods and model building using economic theory to formulate an economic/business model that can be estimated with relevant data using appropriate statistical techniques. Econometrics & Quantitative Analysis deals with quantitative data analysis and as such it will familiarize you with the use of standard statistical computing software such as SPSS and Eviews. The course is designed to introduce students to principles and techniques of empirical research and to the application of these results to development economics or deriving conclusions.

A basic knowledge of statistics, ECON 1323 or Statistical Analysis ECON 3341 is one of the prerequisites of this course. If you need a quick refresher in basic statistical concepts and terminology, please visit the following website: <http://www.mrs.umn.edu/~sungurea/introstat/>.

#### ***Text***

A.H. Studenmund. *Using Econometrics: A Practical Guide*, 6th Edition. Addison Wesley Longman.

Please bookmark the following website: [www.awl.com/studenmund](http://www.awl.com/studenmund) and copy the data sets on a disk.

***Additional Readings:*** Will be handed out in the class.

***Statistical Software Packages:*** SPSS, and Eviews.

### ***Course Objectives***

This course should expand your ability to achieve the following objectives that reflect the broader objectives of the economics discipline:

- Identify types of problems that lend themselves to quantitative analysis, ask
- "researchable" questions, and formulate hypotheses;
- Apply economic theory to formulate statistical models that can be estimated;
- Identify the procedures to test hypotheses (logic, procedure, data);
- Carry out the analysis, understand the meaning of results and their policy implications;
- Present the results to an audiences made up of your peers;
- Evaluate results of research carried out and reported by others; and
- Apply the knowledge acquired to develop and conduct a service learning research project and other research projects.

### ***Course Method***

The course consists of:

- Lectures and discussions on research methods and econometric procedures;
- Computer Lab sessions which may be held outside of class hours. The times for these labs will be announced a week in advance;
- Creatively solving assigned questions and group exercises;
- Discussions of the service learning project design/research project, its implementation, progress and results.

### ***Homework:***

All class periods will have readings and problems assigned in advance. These problems are to be worked out and handed in to be graded. Your work must be legible or I will not accept it. It is your responsibility to ask questions about the readings and problems you do not understand. Homework is expected to be turned when scheduled; if you have problems see me in advance.

### ***Exams:***

There will be two midterm exams and a final exam for this course. The final exam will be cumulative, with emphasis on the material covered after the midterm exams.

### ***Project:***

There will be computer project. You may work in groups of up to 3 on the computer project and turn in one paper with everyone's name on it.

**Attendance:**

Students are expected to attend all classes. It is your responsibility to keep informed of any announcements.

**Evaluation Procedure**

The final grade will be a composite of grades for:

Homework	10%
Midterm Exams	40%
Project	10%
Final Exam: 22/12/2012	40%

**Class Schedule:**

We will cover the following topics; any changes will be announced in class.

<b>Week and Date</b>	<b>Read:</b>	<b>Subject</b>
#1: 1-5 Sep.	Chapter 1	An Overview of Regression Analysis
#2: 8-12 Sep.	Chapter 2 & 3	Ordinary Least Squares & Learning to Use Regression Analysis
#3: 15-19 Sep.	Chapter 4 & 5	The Classical Model & Hypothesis Testing
#4: 22-26 Sep.	Chapter 6 & 7	Model Specification: Choosing the Independent Variables & Choosing a Functional Form
#5: 29 Sep. -3 Oct.	<i>Reading Material</i>	<i>Computer Session #1: Using E-Views</i>
<b>#6: 6 Oct. - 10 Oct.</b>	<b>First Midterm Exam</b>	<b>Chapters 1 - 7</b>
#7: 13-17 Oct.	Chapter 8	Multicollinearity
#8: 20- 24 Oct.	Chapter 9	Serial Correlation
#9: 27- 31 Oct.	Chapter 10	Heteroskedasticity
#10: 3 Nov.-7 Nov.	<i>Reading Material</i>	<i>Computer Session #2: Using E-Views</i>
<b>#11: 10 – 14 Nov.</b>	<b>Second Midterm Exam</b>	<b>Chapters 8 – 10</b>
#12: 17- 21 Nov.	Chapter 12	Time-Series Models
#13: 24 -28 Nov.	Chapter 12 – Cont.	Time-Series Models
#14: 1 Dec. -5 Dec.	Chapter 13	Dummy Dependent Variable Techniques
#15: 8 -12 Dec.	<i>Reading Material</i>	<i>Computer Session #3: Using E-Views</i>
#16: 15 -19 Dec.	Chapter 11	Running Your Own Regression Project
<b>22 Dec. 2012: Final Examination - Chapters 1 -13</b>		

**Good Luck**