



**Syllabus
BUS 871 - 16
Seminar in Econometrics
Fall 2007**

Prof., Dr. Abdulrazzak Charbaji

5:00 pm	7:30 pm	M	Computer Center	Sep 27, 2007	Feb 05, 2008
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Professor: Dr. Abdulrazzak Charbaji

Phone: (03) 714279 & (01) 355046

E-mail: abdulrazzak.charbaji@lau.edu.lb

Office Hours: 4:30pm – 5:30pm Thursday & 4:00pm – 5:00pm Monday

Course Description:

Econometrics is the application of Regression and Matrix techniques to business economic models in an effort to verify theorems and achieve better decisions. The objective of this course is to provide a very thorough presentation of econometric modeling and techniques with an *emphasis* on the measurement of business and economic relationships. This course is taught at the graduate level for business and economic majors. It is recommended for all MBA students. All students are required to have successfully studied introductory economics along with business research or statistics for business and economics. Although you will not become a theoretical econometrician, you should leave this course with an understanding of the main problems which face applied econometrician.

Course Prerequisite(s):

Implementing econometric procedures involve messy calculations. In today's computerized environment, the optimal strategy in teaching econometrics places less emphasis on mathematical derivation and more on concepts and model building. For this reason, computer application is an integral part of this course and we will use three different computer software:

- Econometrics Views, or Eviews,
- SPSS, Advanced SPSS, and
- Excel

Prior programming experience is not required or expected. These computer software are made available to LAU business students through the School of Business Computer Center.

Required Text:

D. Gujarati (2003), Basic Econometrics, McGraw Hill, 4th Edition. This book is available in Malek's Bookstore.

Course Objectives:

One objective of the course is to provide the students with a good understanding of econometric models. These models are widely used in the empirical literature, and a good understanding of these models is crucial for the second objective of the course: to provide the students with the ability to evaluate recent empirical studies. The third objective of the course is to develop practical skills, which are necessary to perform independent research using microdata.

Means to Accomplish Objectives:

The student will be required to:

1. Participate in class discussion,
2. Attend the Business Computer Center,
3. Take Midterm exam,
4. Take final exam, and
5. In the business computer center, you will be asked to present results from some simple related empirical exercises.

Attendance & Cheating Policies :

Any student absence for more than three business computer sessions will have his/her grade lowered by one letter grade.
Anyone caught plagiarizing will receive an "F" in the course.

Course Outline:

Lectures and Computing Exercises Textbook: D. Gujarati (2003), Basic Econometrics, McGraw Hill, 4th Edition.	
Table of Contents:	Date
Lectures: <ul style="list-style-type: none">• Syllabus• Book• Course requirements What is Econometrics D. Gujarati (2003), Chapter 1	Monday, Oct., 1 st Business Building 1207

<p>Lectures: Starting EVIEWS, SPSS , Excel and running two-variable regression model: Testing Hypothesis and estimation</p> <p>D. Gujarati (2003), Chapters 3 & 5 :</p> <p>Table 3.2 and Exercise 5.9</p>	<p>Monday, Oct., 8th</p> <p>Meet in computer lab</p>
<p>Lectures: Multiple regression, partial effect and overall F-test</p> <p>D. Gujarati (2003), Chapters 7 :</p> <p>Table 7.7 and Exercise 7.17</p>	<p>Monday, Oct., 15th</p> <p>Meet in computer lab</p>
<p>Dummy variables and its tests</p> <p>D. Gujarati (2003), Chapters 9 :</p> <p>Table 9.7 and Exercise 9.3</p>	<p>Monday, Oct., 22nd</p> <p>Meet in computer lab</p>
<p>Dummy variables and its tests</p> <p>D. Gujarati (2003), Chapters 9 :</p> <p>Table 9.7 and Exercise 9.3</p>	<p>Monday, Oct., 29th</p> <p>Meet in computer lab</p>
<p>Lectures: Autocorrelation Test</p> <p>D. Gujarati (2003), Chapters 9 :</p> <p>Table 12.9 and Exercise 12.23</p>	<p>Monday, Nov., 5th</p> <p>Meet in computer lab</p>
<p>Lectures: Heteroscedasticity Test</p> <p>D. Gujarati (2003), Chapters 11 :</p> <p>Table 12.9 and Exercise 12.23</p>	<p>Monday, Nov., 12th</p> <p>Meet in computer lab</p>
<p>Lectures: Recursive Causal Model (The Capital Asset Pricing Model)</p> <p>D. Gujarati (2003), Chapters 20 : Example 20.3</p>	<p>Monday, Nov., 19th</p> <p>Meet in computer lab</p>

<p>Independence Day –Holiday- No Classes</p>	<p>Thursday, Nov., 22nd</p>
<p>Lectures:</p> <ol style="list-style-type: none"> 1. Simultaneous- Equation Models 2. The Identification Problem 3. Simultaneous –Equation Methods <p>D. Gujarati (2003), Chapters 18 and 20 :</p> <p>Klein’s Model Example 20.2</p> <p>Deadline for Incomplete grades (from spring and summer 2007)</p>	<p>Monday, Nov., 26th</p> <p>Meet in computer lab</p>
<p>Midterm Exam (20 points)</p>	<p>Monday Dec., 3th</p>
<p>Lectures:</p> <p>Time Series Econometrics</p> <ol style="list-style-type: none"> 1. Test of Stationarity 2. Autocorrelation and Partial Autocorrelation Function ACF & PACF (Autocorrelogram of a random walk) 3. The Unit Root Test <p>D. Gujarati (2003), Chapters 21: Table 21.1</p>	<p>Monday, Dec., 10th</p> <p>Meet in computer lab</p>
<p>Lectures:</p> <p>Time Series Econometrics</p> <ol style="list-style-type: none"> 1. Test of Stationarity 2. Autocorrelation and Partial Autocorrelation Function ACF & PACF (Autocorrelogram of a random walk) 3. The Unit Root Test <p>D. Gujarati (2003), Chapters 21: Table 21.1</p>	<p>Monday, Dec., 17th</p> <p>Meet in computer lab</p>
<p>Christmas and New Year vacation</p>	<p>Saturday, 12/22/07 - Wednesday, 1/2/08</p>

<p>Lectures:</p> <p>Time Series Econometrics</p> <ol style="list-style-type: none"> 1. Test of Stationarity 2. Autocorrelation and Partial Autocorrelation Function ACF & PACF (Autocorrelogram of a random walk) 3. The Unit Root Test <p>D. Gujarati (2003), Chapters 21: Table 21.1</p>	<p>Monday, Jan., 7th</p> <p>Meet in computer lab</p>
<p>Lectures:</p> <p>Time Series Econometrics</p> <ol style="list-style-type: none"> 1. Test of Stationarity 2. Autocorrelation and Partial Autocorrelation Function ACF & PACF (Autocorrelogram of a random walk) 3. The Unit Root Test <p>D. Gujarati (2003), Chapters 21: Table 21.1</p>	<p>Monday, Jan., 15th</p>
<p>Last day for withdrawing from courses for fall 2007</p>	<p>Friday, January 18, 2008</p>
<p>Lectures:</p> <p>Time Series Econometrics</p> <ol style="list-style-type: none"> 1. Test of Stationarity 2. Autocorrelation and Partial Autocorrelation Function ACF & PACF (Autocorrelogram of a random walk) 3. The Unit Root Test <p>D. Gujarati (2003), Chapters 21: Table 21.1</p>	<p>Monday, Jan., 22nd</p> <p>Meet in computer lab</p>
<p>Fall 2007 classes end on Thursday, 1/24</p>	
<p>Friday, January 25 - Sunday, January 27, 2008 Reading period</p>	
<p>FINAL EXAM (35 points) Monday, 1/28 - Wednesday, 2/6</p>	

Course Requirements:

Assignments (40 points)

In the business computer center, you will be asked to present results from some simple related empirical exercises (There are various assignments that are done in business computer) .

Midterm Assessment (25 points)

One midterm will be given in the semester.

Final Assessment (35 points)

A final take-home exam will be given on the last week of Fall semester.

Makeup work:

No makeup will be accepted.

Grading Scale:

≥ 90	A
87-89	A-
83-86	B+
80-82	B
77-79	B-
73-76	C+
70-72	C
67-69	C-
63-66	D+
60-62	D
≤ 59	F

Internet Sources

www.emeraldinsight.com

<http://cf.heritage.org/index2004test/country2.cfm?id=Lebanon>

<http://www.heritage.org/research/features/index/countries.html>

<http://www.undp.org.lb/information/socioecostatistics.html>

<http://www.richardmayberry.com/legal.html>

<http://www.arab.net/lebanon/links.htm>

<http://www.worldbank.org/data>

<http://www.ccib.org.lb/recommend.html>

www.fedstats.gov

www.census.gov

www.access.gpo.gov/eop (Economic Report of the President)

www.bls.gov (Bureau of Labor Statistics)

www.bea.gov (Bureau of Economic Analysis)

<http://www.statehealthfacts.kff.org/> (Kaiser Family Foundation web site)

Association of Banks in Lebanon	http://www.abl.org.lb
Ministry of Economy	http://www.economy.gov.lb/MOETEN/index.htm http://www.economy.gov.lb/MOETEN/MOET-statistics.html
Association of Lebanese Industrialists	http://www.abi.org.lb
Banque du Liban	http://www.bdl.gov.lb/index.html
Beirut Stock Exchange	http://www.bse.com.lb
CDR Council of Development and Reconstruction - Lebanon	http://www.cdr.gov.lb
Central Administration of Statistics	http://www.cas.gov.lb
Chamber of Commerce & Industry in Sidon & South Lebanon	http://www.ccias.org.lb
Chamber of Commerce, Industry & Agriculture of Tripoli & North Lebanon	http://www.cciat.org.lb
Chamber of Commerce, Industry & Agriculture of Zahle & Bekaa	http://www.cciaz.org.lb
Court of Audit	http://www.coa.gov.lb/english.html
Directorate General of Customs	http://www.customs.gov.lb/customs/English
IDAL	http://www.idal.com.lb
Industrial Research Institut	http://www.iri.org.lb
Lebanese Parliament	http://www.lp.gov.lb
LIBNOR, Lebanese Standards Institution	http://www.libnor.com
Middle East Airlines	http://www.mea.com.lb
Ministry of Agriculture	http://www.agriculture.gov.lb
Ministry of Environment	http://www.moe.gov.lb

Ministry of Finance	http://www.finance.gov.lb
Ministry of Foreign Affairs and Emigrants	http://www.emigrants.gov.lb
Ministry of Industry	http://www.industry.gov.lb
Ministry of Interior	http://www.interior.gov.lb
Ministry of Justice	http://www.justice.gov.lb
Ministry of Posts & Telecommunications	http://www.mpt.gov.lb
Ministry of Public Health	http://www.public-health.gov.lb
Ministry of Public Works	http://www.public-works.gov.lb
Ministry of Tourism	http://www.lebanon-tourism.gov.lb
Office of the Minister of State for Administrative Reform OMSAR	http://www.omsar.gov.lb
Solidere	http://www.solidere-online.com
Special Investment Community - Money Laundering	http://www.sic.gov.lb
Syndicate of Lebanese Food Industries	http://www.slfi.org.lb/index1.html
World Trade Center, Beirut	http://www.wtcbeirut.com/