

Supplemental

Philip Mensah will serve as a graduate assistant for this course. Contact E-mail: mensap1@unlv.nevada.edu

Course Description

Capstone course for economics majors. Reviews the major theories and tools used by professional economists. Culminates in a student research project presented to the class in oral and written form.

Course Prerequisite(s):

Prerequisites: Lee Business School major or Economics minor; and a minimum of C grade in ECON 262 or ECON 441, and in ECON 302, and in ECON 303, and senior standing. Notes Satisfy Social Science Requirement.

Course Objectives

This course is designed as a capstone course for economics majors. It reviews the major theories and econometric tools used by professional economists. The course is organized in three parts. The first part covers basic statistics and multiple regression models. The second part deals with econometric modeling based on cross section data and the last part deals with modeling dealing with time series data.

Learning Outcomes

Students who successfully complete this course will be able:

1. To gain hands-on experiences in building econometric models
2. To build their own model with their own ideas and data sets
3. To enhance their ability to work with the econometric software STATA, and large-size data sets.
4. To acquire the knowledge and appreciation to further their education in a world of increasing demand for data analysis and empirical economic analysis (Evaluation).

Required Text

None: See Canvas Lectures

Assessment

Each student is expected to compile a portfolio of course materials that include a resumé, a few class projects, a term paper, and an oral presentation of the term paper. The class projects and the term paper will require the use of large data sets and familiarity with EXCEL and STATA statistical software packages. Assigned projects and the term paper are expected to be submitted

on due dates. Each individual student is required to prepare a term paper on a topic of his or her choice with my approval. The paper should be an independent piece of empirical work involving aspects of specification, testing hypothesis, and estimation. Each student is expected to present the key findings of the paper to the whole class. For the presentation of the term project, you will have to basically take a video of your presentation and post it online via YouTube or Dropbox. You will have to create a free account in YouTube/Dropbox (whichever you prefer), upload the video there, and share the URL for the video in the assignments tab along with your slides on Canvas. (N.B.: You can work alone or in a group that should not exceed four students).

Grading Policy

Final grades will weigh a set of projects by 60%, a term paper by 25%, an oral presentation by 10%, and class participation by 5%. The approximate grade distribution will be as follows

Grading Scale

Percent	Grade
90%	Borderline A-
80%	Borderline B-
70%	Borderline C-
60%	Borderline D-

No Make-up Items Policy

Exam and presentation dates/times are provided on the first day of class along with the outline of weekly content on WebCampus. Students should plan accordingly to be available on those dates.

Only in extreme emergency circumstances (such as hospitalization with official documentation), a make-up exam will be scheduled.

Providing official documentation of extenuating circumstances is required **prior to** the scheduled exam. Student Athletes must contact the instructor very early in the semester if she/he has an exam scheduling conflict and submit proper documentation.

If advance notice was not possible due to a documented emergency, the student must notify the instructor within 48 hours of the incident.

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I recommend that you access the virtual computer lab set up by OIT. STATA is one of the software offered through the virtual lab, which you can access remotely. More information can be found here: <https://www.it.unlv.edu/software/stata>. You can also purchase a student version of STATA online.

Please note that we are 100% dependent on technology for the delivery of this class. Therefore, it is very important for you to know that you *cannot* rely on technology to work every time. To

If you leave questions until the day of an assignment is due, I may not be able to respond in time.

Before writing an email, you must first review course materials such as the syllabus, and the posted announcements for the answers to your questions.

Class Copyright Policy

Students are not allowed to copy, distribute, share, or post any course materials without the written permission of the instructor. Failure to adhere to this policy will be treated as a student code of conduct violation and may result in a grade of F for the entire course as well as other disciplinary sanctions.

Course Outline

Part I: Regression Analysis

1. Applied Multiple regression Analysis.
 - a. Presenting the descriptive statistical results (Cross section Analysis)
 - b. Presenting the descriptive statistical results (Time Series Analysis)
 - c. Presenting the regression results
2. Applied regression Analysis: Extension
 - a. Functional form
 - i. Linear and quadratics
 - ii. Exponential and log
 - iii. Dummy variables
 - b. More testing
 - i. Restrictions on coefficients
 - ii. Testing nested and non-nested models
 - c. Problems in Regression
 - i. Multicollinearity
 - ii. Specification errors
 - iii. Heteroscedasticity

Part II: Modeling Cross-Section Data

1. Hedonic Price Models
 - a. Rosen-Freeman Approach
2. Modeling Wage Equation
 - a. Mincer Wage Equation
 - b. Measuring discrimination effects
3. Determinants of the Solow growth model
4. Discrete Choice Models
 - a. Linear Probability Model

- b. Logit Model
- c. Probit Model

Part III: Modeling Time Series Data

- 1. Dynamic Regression
- 2. Serial Correlation
- 3. Autoregressive distributed lag model
- 4.

use a substitute, and could result in investigation and sanctions, as outlined in the Student Academic Misconduct Policy.

UNLV students enrolled in online courses are also expected to read and adhere to the [Acceptable Use of Computing and Information Technology Resources Policy](#),

<https://www.it.unlv.edu/policies/acceptable-use-computing-and-information-technology-resources-policy>, which prohibits sharing university accounts with other persons without authorization.

To the greatest extent possible, all graded assignments and assessments in UNLV online courses should be hosted in WebCampus-Canvas or another UNLV-managed platform that requires ACE login credentials for access.

Incomplete Grades

The grade of “I” (Incomplete) may be granted when a student has satisfactorily completed three-fourths of course work for that semester/session, but cannot complete the last part of the course for reason(s) beyond the student’s control and acceptable to the instructor, and the instructor believes that the student can finish the course without repeating it. For undergraduate courses, the incomplete work must be made up before the end of the following regular semester. Graduate students receiving “I” grades in 500-, 600-, or 700-level courses have up to one calendar year to complete the work, at the discretion of the instructor. If course requirements are not completed within the period indicated, a grade of “F” will be recorded, and the student’s GPA will be adjusted accordingly. Students who are fulfilling an Incomplete grade do not register for the course, but make individual arrangements with the instructor who assigned the “I” grade.

Library Resources

Librarians are available to consult with students on research needs, including developing research topics, finding information, and evaluating sources. To make an appointment with a subject expert for this class, please visit the [Libraries’ Research Database](#)

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