

University of Colorado - Department of Economics
Econ 7828 - Econometrics - Spring 2015
Professor Carlos Martins-Filho

Office. Economics Building 105

Meetings. Tuesdays and Thursdays from 11:00 AM - 12:15 PM in ECON 119.

Office hours. Tuesdays 12:30 PM - 2:30 PM or by appointment. For appointment send an email to carlos.martins@colorado.edu.

Class URL. http://spot.colorado.edu/~martinsc/Econ_7828.html

Prerequisites. ECON 7818 (or equivalent) or consent of instructor.

Objectives. This course is the second semester of your first-year graduate sequence in Econometrics. The first semester covered some fundamental concepts in probability and statistics and introduced you to estimation and tests of hypotheses. In this course our objective is to introduce you to various parametric models of regression. They include the classical linear regression model and associated models that relax several of its constituent assumptions. We will also treat regression models where some or all regressors are "endogenous" as well as models with multiple regressands. Time permitting we will also deal with models for regressands that are either discrete or in some other way limited.

Grades. Your course grade depends on four homework sets, a midterm and a final examination. Relevant dates are given below.

Evaluation	Percentage	Dates
Homework sets	30	announced in class
Midterm examination	30	March 10, in class
Final examination	40	

2. Casella, G. and Berger, R., 2002, Statistical inference, Duxbury, Pacific Grove, CA.
3. Davidson, J., 1994, Stochastic Limit Theory, Oxford University Press, Oxford.
4. Grimmett, G.R. and D.R. Stirzaker, 1992, Probability and Random Processes, Oxford University Press, Oxford.
5. Jacod, J. and P. Protter, 2000, Probability Essentials, Springer, Berlin.

B. Econometrics

1. Davidson, J., 2000, Econometric Theory, Blackwell Publishers, Oxford.
2. Hansen, B., 2013, Econometrics, unpublished, available at <http://www.ssc.wisc.edu/~bhansen/econometrics>
3. Schmidt, P., 1976, Econometrics, Marcel-Dekker, New York.

Topics .

1. The classical linear regression model: estimation and testing.
 - Nonnormality
 - Restricted estimation
 - Generalized Least Squares (GLS) and Feasible Generalized Least Squares (FGLS)
2. Endogeneity
 - Instrumental variable (IV) and Generalized Method of Moments (GMM) estimation and testing
3. Simultaneous equations
4. Panel data models
5. Limited regressand models

Important information.

If you qualify for accommodations because of a disability, please submit a letter from Disability Services in a timely manner (for exam accommodations provide your letter at least one week prior to the

Students and faculty each have responsibility for maintaining an appropriate learning environment. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, color, culture, religion, creed, politics, veteran's status, sexual orientation, gender, gender identity and gender expression, age, disability, and nationalities. Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. See policies at www.colorado.edu/policies/classbehavior.html and at www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code.

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