

2010 AMERICAN ECONOMICS ASSOCIATION SUMMER PROGRAM

ECONOMETRICS FOUNDATIONS

ECON 194SE - PART 1

SYLLABUS

- Instructor: Chris Goodwin - goodwin@econ.ucsb.edu
Office: North Hall 2053
Office Hours: WF 11:00am-12:00pm
- Lectures: North Hall 2212, MWF 9:30-11:00am
TA Help Sessions: North Hall 2212, T 3:30-4:30pm
- Teaching Assistant: David Ruiz - ruiz@econ.umd.edu
Office: TBA
Office Hours: TBA
- Textbook: Introductory Econometrics: A Modern Approach by Jeffrey M. Wooldridge (2009), ISBN: 978-0324581621, *required*
Microeconometrics: Methods and Applications by A. Colin Cameron & Pravin K. Trivedi (2008), ISBN: 978-0-521-84805-3, *supplemental - advanced*
- Course Description: Econometrics is the application of statistical techniques to analyze economic questions and issues. This course is an introduction to the fundamental tools of econometrics. Students in this course will learn to formulate models, manage data, estimate models, interpret results, and forecast. Topics covered will include probability and sampling distributions, hypotheses testing, linear regression models, and maximum likelihood estimation. A complete list of topics can be found on the Course Outline below.
- Grades: Grades will be based on two problem sets due at the beginning of class on Mon, 28 June and Wed, 7 July respectively, and on the in-class final exam scheduled for Friday, 9 July. No early or make-up exams will be given. Grading weights will be: 30% Problem Set 1, 30% Problem Set 2, and 40% Final Exam.

Course Outline:

Week	Lecture	Day	Topic	Reading	Assignment
One		Mon, 21 Jun	*** Orientation Day (no class) ***		
	1	Wed, 23 Jun	Overview and Expectations Nature of Econometrics and Economic Data Definition and Derivation of Simple Regression Model	Chptr 1 Sec 2.1	
	2	Fri, 25 Jun	Introduction to Stata Assumptions of the OLS Model Algebraic Properties of OLS and R-squared	Sec 2.2 Sec 2.3	
Two		Mon, 28 Jun	Alternative Estimation Methods (MoM, ML) Units of Measurement and Functional Form	Appx C.4 Sec 2.4	Problem Set #1
	4	Wed, 30 Jun	Expected Values and Variances of OLS Estimator Regression through the Origin (and bias) Motivation for Multiple Regression	Sec 2.5 Sec 2.6 Sec 3.1	
	5	Fri, 2 Jul	Mechanics and Interpretation of OLS in the Multiple Regression Model (Stata Examples) Expected Value of OLS Estimators in the Multiple Regression Model	Sec 3.2 Sec 3.3	
Three		Mon, 5 Jul	*** Holiday (no class) ***		
	6	Wed, 7 Jul	Omitted Variable Bias Expected Value of OLS Estimators in the Multiple Regression Model Gauss-Markov Theorem Final Exam	Sec 3.3 Sec 3.4 Sec 3.5	Problem Set #2