

Econ 629

Statistical Methods for Econometrics

Spring 2013

Dr. Walter Mayer

Holman 342 915-5980 wmayer@olemiss.edu

T TH 04:00 PM - 05:15 PM

Office hours: Monday 3:00-5:00 other times by appointment

Course Description

Coverage of selected topics from probability and mathematical statistics that are important for the study of advanced econometrics.

Topics include sample spaces, probability, conditional probability, random variables, distributions, expectation (mean, variance and covariance), conditional means, probability limits, laws of large number, sampling distributions, efficiency, central limit theorem, asymptotic distributions, method of moments, maximum likelihood and hypothesis testing.

Objective

The objective is to prepare students for the future study of advanced (Ph.D. level) econometric methods.

Recommended Background

Students are assumed to be familiar with differential and integral calculus.

Text

Introduction to Probability and Mathematical Statistics 2nd Edition, by Bain and Engelhardt

Grades

Midterm: 200 points

Final: 200 points

Homework: 50 points

Course Outline and Readings

I. Probability Models: Random Variables and Distributions

Reading: Chapters 1-7

II. Statistical Inference: Estimation and Hypothesis Testing

Reading: Chapters 8-12