

Econometrics II
ECO 6425

- I. Introduction
 - A. Overview
 - B. Computer Projects - This course will require the student to undertake a number of applications using both real-world and simulated data. A brief write-up for each application will be required which summarizes the econometric and economic implications of the study.

- II. Maximum Likelihood
 - A. The Likelihood Principle
 - B. Cramer-Rao Theorem
 - C. Numerical and Algebraic Solutions
 - D. Regression and Density Estimation

- III. Simultaneous Equation Models
 - A. Nature of Simultaneity
 - B. Problem of Identification
 - C. Single-Equation Techniques - Two-Stage - LIML
 - D. Multi-Equation Techniques - Three-Stage - FIML

- IV. Time Series Models
 - A. The Nature of Time-Series Models
 - B. AR Models
 - C. MA Models
 - D. Homogenous Nonstationary Data and Integration of Stochastic Processes
 - E. ARIMA models - Specification, Estimation, Assessment, and Forecasting