REFERENCES

I) Econometric Theory


II) Applied Econometrics and Related Texts


Tentative Course Outline:

Univariate Time Series Models
  o Autoregressive Time Series Models
  o Moving Average Time Series Models
  o Nonstationary Processes and Integrated Processes
  o ARMA and ARIMA Processes
  o Identification, Estimation and Testing of ARIMA Models
  o Forecasting
ARCM and GARCH Models
  o The ARCH (p) Model
  o The GARCH (p,q) Model
  o The GARCH in Mean GARCH-M Model
  o The Threshold GARCH (TGARCH) Model
  o The Exponential GARCH (EGARCH) Model
  o Adding Explanatory Variables in the Mean and Variance Equations
  o Examples on ARCH and GARCH Likelihood Functions

Autoregressive Distributed Lag Models (ADL)
  o Constant Elasticity and Unit Elasticity Relations
  o Reparameterization
  o Dynamic Equilibrium
  o Specification and Testing

Nonstationarity and Cointegration
  o Unit Roots and Testing for the Order of Integration
  o The Concept of Cointegration
  o Testing for Cointegration
  o Error Correction Models and the Estimation of the Cointegrating Vector
  o A Maximum Likelihood Approach to Cointegration

Vector Autoregression (VAR) Models
  o Principles of Vector Autoregressive Modeling
  o Causality Inference
  o Forecasting and Impulse Response Functions
  o Error Correction Models and the Engle-Granger Method
  o VAR Cointegration Inference: The Johansen Method
  o Higher-Order VARs

Exogeneity and Structural Invariance
  o Weak and Strong Exogeneity
  o Structural Invariance, Super Exogeneity, and the Lucas Critique
  o Exogeneity Tests
  o The Wu-Hausman Test
Non-Nested Models, Encompassing, and Model Selection
  o Problems in Model Selection
  o Encompassing
  o Model Selection Tests

Panel Data
  o The Pooled Estimator
  o The Random Effects Model
  o The Fixed Effects Model
  o The Wu-Hausman Test for Panels

Mid-Semester Exam: Saturday, April 9, 2011