Time Series Analysis
ECON 423.01
Fall 2007

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Office: A115
Hrs: T 13:30 - 14:30
TH 13:30 - 14:30

Objectives: Introducing the students to basic time series econometrics concepts, and estimation procedures. A useful estimation tool, EViews will be frequently used throughout the semester, providing the students with hands-on experience in applied economics.

Exams: Grading will be based on class participation (10%), homework assignments (20%), a midterm exam (30%), and a final project (40%). Attendance is obligatory; there may be short unannounced quizzes, especially on the days with low attendance.

Text: *Time Series for Macroeconomics and Finance* by John H. Cochrane

Course outline:

	Weeks
Introduction and basic definitions	1
ARMA models and Autocovariance	2
Autocovariance and Prediction	3
Wold representation and VARs	4, 5
GARCH processes, Midterm 1	6
Unit roots	7, 8
Cointegration	9, 10
Special Topics	
Structural Breaks	11
State Space Models	12
Trend Cycle Decomposition	13
Spectral Analysis	14