James Hamilton
University of California, San Diego
Economics 220E
Winter 2004

Required Text

The following book is required and available at UCSD bookstore:

James D. Hamilton, *Time Series Analysis,* Princeton University Press, 1994.

Grading Policy

Grades for Econ 220E will be determined as follows:

30%:Midterm Exam. This will be on Wednesday, February 4. No books or notes allowed.

70%: Final Exam. This will be on Tuesday, March 16, from 8:00 a.m. to 11:00 a.m. No books or notes allowed.

Course Outline

Mon Jan 5	Difference equations (Chapter 1)
Wed Jan 7	[No scheduled class]
Mon Jan 12	Lag operators (Chapter 2)
Wed Jan 14	ARMA processes (Chapter 3)
Fri Jan 16	[Make-up lecture] Forecasting (Chapter 4)
Mon Jan 19	University holiday (no class)
Wed Jan 21	Maximum likelihood estimation (Chapter 5)
Mon Jan 26	Spectral analysis (Chapter 6)
Wed Jan 28	Continued discussion of spectral analysis (Chapter 6)
Mon Feb 2	Distribution theory for stationary processes (Chapters 7 and 8)

Wed Feb 4	Midterm exam
Mon Feb 9	Introduction to unit roots (Section 17.1)
Wed Feb 11	Deterministic time trends (Chapter 16)
Mon Feb 16	University holiday (no class)
Wed Feb 18	Asymptotic distribution theory for unit roots (Chapter 17)
Mon Feb 23	Introduction to VARs (Section 11.1)
Wed Feb 25	Analysis of VARs (Sections 11.2-11.5)
Mon Mar 1	Interpreting VARs (Section 11.6)
Wed Mar 3	Unit roots in vector time series (Chapter 18)
Mon Mar 8	Cointegration (Chapter 19)
Wed Mar 10	Maximum likelihood estimation of cointegrated systems (Chapter 20)
Tues Mar 16	Final exam (8:00 a.m. – 11:00 a.m.)