Time Series Econometrics
Winter, 2004
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This course will introduce you to quantitative methods used in the analysis of dynamic economic models.

Texts

Time Series Analysis, James Hamilton, Princeton University Press
Econometrics, Fumio Hayashi, Princeton University Press
Lecture Notes on Time Series Econometrics, Lee E. Ohanian

Your grade for the course will be 2/3 on this part, and 1/3 on Min's section.

Your grade for this part of the course will be based on problem sets (50%) and a final project (50%). The problem sets can be done with a partner, if you prefer.

Topics

1. Stationary ARMA models (Lecture notes, Hamilton Ch. 3, Hayashi Ch. 6, 6.1-6.5)
2. Stationary VARs (Lecture notes, Hamilton Ch. 10-12)
3. Kalman Filtering (Lecture notes, Hamilton, Ch. 13)
4. Hidden Markov States (Lecture notes, Hamilton, Ch. 22)
5. GMM Estimation (Lecture notes, Hayashi Ch 3 and 4)
6. Calibration (Lecture notes to be handed out)
7. ML estimation of Linear Dynamic Models (Lecture notes)
8. Simulation Estimators (Lecture notes, readings to be announced)