Stochastic Processes and Time Series Econometrics: ECON311

February-March 2019

Instructor: Professor Lars Peter Hansen
lhansen@uchicago.edu

Abstract
This course develops and applies time series statistical methods for the analysis of dynamic economic models. It develops tools from probability theory, statistics and decision theory are developed and uses them to study nonlinear models of economic time series. These tools support applications in empirical macroeconomics and finance.

Course Outline

I. Decision Theory: 1.5 lectures

II. Stationarity, Law of Large Numbers, Central Limit Approximation: 2.5 lectures

III. Recursive Learning and Maximum Likelihood: 2 lectures

IV. GMM Theory: 4 lectures

**For updated class notes, please refer to larspeterhansen.org > Teaching > Class Notes. Other materials will be distributed as necessary.