ECON 2260: ADVANCED ECONOMETRICS I

Jean-Francois Richard, Room 4917

Classes: M-W 10:30 – 11:45, Room 4716

Office hours: Wednesday 14:00-16:00 or stop by

Appointments: fantin@pitt.edu, X81750

The course consists of an introduction to the econometric analysis of time series. Following a review of basic concepts (estimation, testing, numerical optimization) I will introduce “reduced form” models: autoregressive process (stationarity) and moving average processes. “Structural models” will be discussed next with emphasis on dynamics and Error-Correction-Mechanisms (ECM). Finally, I will discuss dynamic state-space models: linear Gaussian models and the Kalman filter; non-linear non-Gaussian models (particle filters and extensions).


Additional reading: Reading material (handouts, papers) will be scanned and circulated electronically as needed.


Credit requirements: Students taking the course for credit will be graded on a combination of homework (20%) and a final take-home exam (80%). The take-home exam is STRICTLY individual.