

- WEEK 2: *Review of asymptotic distribution theory: convergence in probability and in distribution, LLN, CLT, Slutsky and CMT.*
 SW 15
 FH 2*
- WEEK 3: *Introduction to Time Series data -- Covariance stationary processes: ARs, MA and ARMA processes, and the correlogram, Forecasting and Lag length selection*
 SW 12.2, 12.3, 12.4
 JH 3.1-3.5, 4, 10***
- WEEK 4: *Non-stationarity: trends (deterministic and stochastic) and unit root tests: consequences, detection, remedies*
 SW 12.6
 JH 15***, 16***, 17***
- WEEK 5: *Non-stationarity: breaks, and tests for a structural break at a known and at an unknown break date (Chow and Andrews' QLR tests)*
 SW 12.7
 Hansen, B., "The New Econometrics of Structural Change", JEP 2001
- WEEK 6: *Estimation of Dynamic Causal effects w/ exogenous regressors, and dynamic multipliers, HAC robust estimation for serial correlation*
 SW 13.1, 13.2, 13.3, 13.4
 GLS estimation, Cochrane Orcutt and the Elliott-Rothemberg-Stock ADF-GLS efficient test for unit root
 SW 14.3
- WEEK 7: *GMM Estimation and IV: exactly identified and overidentified models, asymptotic properties and distribution, efficient GMM and tests for overidentifying restrictions*
 H 3*
- WEEK 8: *MLE: asymptotic properties, OLS as a special case, and relationship with GMM*
 FH 1.5, JH 5***
- WEEK 9: *VARs: estimation, identification by recursive ordering, Impulse Responses, variance decomposition and forecasting*
 SW 14.1, JH 11***
 Stock and Watson, VARs, Journal of Economic Perspectives 2001
- WEEK 10: *Cointegration*
 SW 14.4, JH 19***, 20***
- WEEK 11: *Conditional heteroskedasticity: ARCH models*
 SW 14.4 JH 21***
 Engle, GARCH 101, Journal of Economic Perspectives 2001
- WEEK 12: *Review and Catching up...*