

Week	Date	Unit	Lecture	Mandatory Reading	Suggested Reading	Problem set due	Stata and R	
1	13-mar	Classical OLS	Introduction-Assumptions and Finite Properties	Class Notes: 1.1, 1.2	Hayashi-Sections 1.1, 1.2, and 1.3			
	15-mar		Classical OLS: Assumptions and Finite Properties	Class Notes: 1.3 MM-Chapter 1 and 2				
2	20-mar		Classical OLS: Hypotheses testing under normality	Class Notes: 1.4 and 1.5. MHE-Chapter 1, 2 and 3	Hayashi-Sections 1.4		Lab 1	
	22-mar		Classical OLS: Hypotheses testing under normality	Class notes: 1.6			Lab 2	
3	27-mar		Classical OLS: GLS	Class notes 1.7 Solon, G., Haider, S. J., & Wooldridge, J. M. (2015). What are we weighting for?. Journal of Human resources, 50(2), 301-316.	Hayashi-Section 1.6 Pischke, J. S. (2007). The Impact of Length of the School Year on Student Performance and Earnings: Evidence From the German Short School Years. The Economic Journal, 117(523), 1216-1242.	Problem set 1 due		
	29-mar		Example: You must read mandatory reading.	Acemoglu, D., Johnson, S., & Robinson, J. A. (2002). Reversal of Fortune: Geography and Institutions in the Making of the Modern World Income Distribution. The Quarterly journal of economics, 117(4), 1231-1294.	Miller, J. E., & Rodgers, Y. V. D. M. (2008). Economic importance and statistical significance: Guidelines for communicating empirical research. Feminist Economics, 14(2), 117-149. Kennedy, P. E. (2002). Sinning in the basement: What are the rules? The ten commandments of applied econometrics. Journal of Economic Surveys, 16(4), 569-589. Kennedy, P. E. (2005). Oh no! I got the wrong sign! What should I do?. The Journal of Economic Education, 36(1), 77-92.			
4	03-abr		Large Sample Theory	Large Sample Theory: Concepts, convergence in probability, LLN, CLT	Class Notes: 2.1 -2.7	Chapter 5, Mathematical Statistics		
	05-abr					Hayashi-Sections 2.1, 2.2		
5	10-abr			Large Sample Theory: OLS estimator	Class Notes: 2.8	Hayashi-Section 2.3-2.7	Problem set 2 due	
	12-abr			Large Sample Theory: OLS estimator				
6	17-abr	Large Sample: Hypothesis Testing		Class Notes: 2.9				
	19-abr	Testing		MHE- Section 8.1				
7	24-abr	Large Sample: Robust Standard Errors in R		Class Notes: 2.10-2.11			Lab 3	
	26-abr	Endogeneity and Instrument	Class Notes: 3.1-3.2	Hayashi-Section 3.1 and 3.2 and 3.3	Problem set 3 due			
8	01-may	NO-Class						
	03-may	Assumptions and GMM estimator	Class notes: 3.3-3.4	Hayashi-Sections 3.4				
9	08-may	Large Sample properties of GMM	Class notes 3.5 MHE-Chapter 3	Hayashi-Sections 3.5				
	10-may	Testing Overidentifying Restrictions	Class notes 3.6 MM-Chapter 4	Hayashi-Section 3.6-3.7				
10	15-may	Conditional Homoskedasticity: Efficient GMM, 2SLS, IV	Class notes: 3.7 Angrist, J. D., Imbens, G. W., & Rubin, D. B. (1996). Identification of causal effects using instrumental variables. Journal of the American statistical Association, 91(434), 444-455.	Hayashi-Sections 3.8 Angrist, J. D., & Krueger, A. B. (2001). Instrumental Variables and the Search for Identification: From Supply and Demand to Natural Experiments. Journal of Economic Perspectives, 15(4), 69-85.				
	17-may	Single Equation GMM	Class Notes 3.8 Things to Consider in	Stock, J. H., Wright, J. H., & Yogo, M. (2002). A survey of weak instruments and weak identification in generalized method of moments. Journal of Business & Economic Statistics, 20(4), 518-529.	Problem set 4 due			

			<i>Applied Work</i>	Bound, J., Jaeger, D. A., & Baker, K. M. (1995). Problems with instrumental variables estimation when the correlation between the instruments and the endogenous explanatory variable is weak. <i>Journal of the American statistical association</i> , 90(430), 443-450.	Rosenzweig, M. R., & Wolpin, K. I. (2000). "Natural" natural experiments" in economics. <i>Journal of Economic Literature</i> , 38(4), 827-874.		
11	22-may		<i>Applications</i>	Class Note 3.9-3.10 Antonakis, J., Bendahan, S., Jacquart, P., & Lalive, R. (2010). On making causal claims: A review and recommendations. <i>The Leadership Quarterly</i> , 21(6), 1086-1120. Blackburn, M. L., & Neumark, D. (1992). Unobserved Ability, Efficiency Wages, and Interindustry Wage Differentials. <i>Quarterly Journal of Economics</i> , 107(4), 1421-1435.	Angrist, J. D., & Krueger, A. B. (1991). Does Compulsory School Attendance Affect Schooling and Earnings?. <i>Quarterly Journal of Economics</i> , 106(4), 979-1014.		Lab 4
	24-may	Multiple Equations GMM	<i>ME Equation: Assumptions and Large Sample Theory</i>	Class Notes	Hayashi-Section 4.1, 4.2 and 4.3		
29-may	<i>Midterm</i>						
31-may	<i>ME Equation and Special Cases: FIVE and 3SLS Estimator</i>		Class Notes	Hayashi-Section 4.4 and 4.5			
13	05-jun		<i>ME Equation and Special Cases: SUR and Common Coefficients</i>	Class Notes	Hayashi-Section 4.6	Problem set 5 due	
	07-jun		<i>NO-Class</i>				
14	12-jun		<i>Applications</i>		Hayashi-Section 4.7		Lab 5
	14-jun		<i>Effects</i>	Class Notes	Hayashi-Section 5.1		
13	19-jun	Panel Data	<i>Panel Data: Fixed Effects</i>	Class Notes	Hayashi-Section 5.2		
	21-jun		<i>Applications</i>		Hayashi-Section 5.4		
14	26-jun	Additional Topics	<i>Bootstrapping</i>	Class Notes			
	28-jun		<i>Bootstrapping Applications</i>	Class Notes		Problem set 6 due	Lab 6

