

Korea University International Summer Campus (KU ISC) 2018

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June 26, 2018 ~ August 2, 2018

ISC320A - Econometrics

I.Instructor

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II. Textbook

Required Textbook : Essentials of Econometrics, 4th Ed. by Damodar N. Gujarati and Dawn C. Porter, McGraw-Hill/Irwin, 2010, ISBN-13: 978-0073375847



Recommended Additional Readings

III. Course Description and Objectives

:

ISC 320 is an introductory course in Econometrics which is a core course in economics and introduces the student to the science and art of building and using statistical models in the context of economic analysis and forecasting. The focus is on understanding the fundamental theory underlying regression methods (including estimation, hypothesis testing, and prediction) and learning how to appropriately apply these techniques in the analysis of economic data.

The overall teaching goals are to help the students build a strong foundation of knowledge in the basic principles of econometrics and to help the students develop critical thinking and problem solving skills in applying these quantitative principles in future scenarios.

Prerequisites: Introductory Statistics; Introductory Microeconomics; Introductory Macroeconomics

IV. Grading

Attendance	:	5 %
Midterm Exam	:	40 %
Final Exam	:	40 %
Assignments	:	15 %

V. Class Outline

Date	Торіс	Chapter	Remarks
June 26 (Tue)	Orientation Day		
June 27 (Wed)	Introduction and review of basic concepts	0	
June 28 (Thu)	Simple linear regression model	1, 2	
June 29 (Fri)	Ordinary least squares and Assumptions	2, 3	
July 2 (Mon)	Properties of OLS	3	
July 3 (Tue)	Statistical inference	3	
July 4 (Wed)	Normality tests, Prediction	3	
July 5 (Thu)	Examples	3	
July 9 (Mon)	Multiple regression model	4	
July 10 (Tue)	Inference about the model	4	
July 11 (Wed)	Review for the mid-term exam	1 - 4	
July 12 (Thu)	Mid-term Exam		
July 16 (Mon)	Partial F-test	4	
July 17 (Tue)	Variable transformation	5	
July 18 (Wed)	Dummy variables	6	
July 19 (Thu)	Logistic regression	12	
July 23 (Mon)	Model specification	7	
July 24 (Tue)	Multicolliniarity & Heteroskedasticity	8, 9	
July 25 (Wed)	Auto-correlations	10	
July 26 (Thu)	Distributed-lag and autoregressive models	12	
July 30 (Mon)	Review for the final exam	4-10, 12	
July 31 (Tue)	Final Exam		
Aug 1 (Wed)	Review and Consultation		
Aug 2 (Thu)	Consultation		