

* Course Keywords	Statistics, Empirical Studies, Data Analysis, econometrics, STATA						
* 1. Purpose of Course	Korean	국제통상 데이터 분석					
	English	Data Analytics for International Commerce					
* 2. Materials and Reference	<p>Teaching Materials: Statistics: The Art and Science of Learning from Data by Agresti, Franklin, and Klingenberg</p> <p>Reference: Introduction to Econometrics by Stock and Watson Impact Evaluation in Practice, Second Edition (World Bank, Inter-American Development Bank) ** This book is freely available at: https://www.worldbank.org/en/programs/sief-trust-fund/publication/impact-evaluation-in-practice Mostly Harmless Econometrics: An Empiricist's Companion by Angrist and Pischke Mastering 'Metrics by Angrist and Pischke For further information, please visit www.youtube.com/soohyunglee</p>						
* 3. Evaluation Method	Evaluation: Absolute Evaluation, Grade-on-a-curve Evaluation						
	Grading Type: A~F						
	Evaluation Items	Attendance	Quiz/Assignments/Projects	Midterms	Final	Attitude	Total
	Rate	10	30	20	20	20	100%
	Note	Quizzes, Assignments and Projects					
	<p>Attendance Policy : Students who are absent for over 1/3 of the class will receive a grade of 'F' or 'U' for the course (Exceptions can be made when the cause of absence is deemed unavoidable by the course instructor).</p>						
Other: Cheating regulation, Plan for substitute test, Availability of feedback for assignments or tests, etc.							
* 4. Quota Exceeding Course Registration	Capacity: Up to 40 Students						
5. Guideline for Students	Prerequisite: None						
	Office Hours and Place: Online ** check the availability with the TA, Ms. Kyung Hyun KIM (hyun893@snu.ac.kr) in advance						
* 6. Lecture Plan	Teaching Method Project class						
	<p>The course objective is to introduce students to basic statistical concepts essential for empirical studies in economics and other social sciences. The topics covered in this course include: Descriptive Statistics, Discrete and Continuous Probabilities, Bayes' Theorem, Random Variables, Expected Value and Variance, Point Estimation, Hypothesis Tests, and Linear Regression. In addition, we will use STATA to analyze actual datasets and conduct data analyses.</p> <p>Other than statistics, this course will cover the latest public and private initiatives to use data for policy and business decisions. Some examples include Evidence-Based Policy Making (EBPM) efforts introduced in the US and Japan, and private initiatives to develop real-time data to assess economic conditions based on private and irregular datasets. Finally, this course will briefly cover Machine Learning techniques and how they are used in economics and related social science studies.</p> <p>This class will be conducted online – using video conferencing (Zoom) and pre-recorded lectures.</p>						

	✘This class does not accept any auditing students.		
	Class Schedule		
	Week	Topics and Contents	
	1	Introduction	Lecture and Q&A
	2	Economic Modeling, Chapter 3, STATA 1	Lecture and Q&A
	3	Chapters 1 & 2	Lecture and Q&A
	4	Chapters 1 & 2	Lecture and Q&A
	5	STATA 2 & Practice Session	Lecture and Q&A
	6	Application: AI, Discrimination, Fairness	Lecture and Q&A
	7	Chapters 6 & 7	Lecture and Q&A
	8	Chapters 8 & 9	Lecture and Q&A
	9	STATA 3 & Practice Session	Lecture and Q&A
	10	Chapters 3 & 12	Lecture and Q&A
	11	Chapter 13	Lecture and Q&A
	12	STATA 4 & Practice Session	Lecture and Q&A
13	Application: How to detect and measure discrimination?	Lecture and Q&A	
14	Causal inference, prediction: stat/econometrics vs. ML	Lecture and Q&A	
15	Feedback, Q&A	Lecture and Q&A	
7. Support Services for Students with Disabilities ✘ You can modify these default contents.	For Lectures	<ul style="list-style-type: none"> ○ Visual Impairment: Make textbooks(digital textbook, braille textbook, enlarged textbook etc), Allow note takers ○ Physical Disability: Make textbooks(digital textbook), Allow note takers and assistants ○ Hearing Impairment: Allow note takers and translators, Allow lecture recording ○ Health Impairment: Excuse absence due to health problems, Allow note takers ○ Learning Disability: Allow note takers ○ Intellectual Disability / Autism Spectrum Disorder: Allow note takers and mentors 	
	For Assignments & Evaluations	<ul style="list-style-type: none"> ○ Visual Impairment / Physical Disability / Hearing Impairment / Health Impairment / Learning Disability: Extend assignment deadlines, Offer alternate assignment submission and response method, Extend testing period, Offer alternate testing method, Offer different testing room ○ Intellectual Disability / Autism Spectrum Disorder: Offer individualized assignments and alternative evaluations 	
	Other	Students who take this course can get appropriate level of support service including the support listed above depending on the students' individual characteristics and needs through consultation with professors and the Support Center for Students with Disabilities. If you have any questions concerning support service for students with disabilities you can contact Professor *** (02-880-****) or Support Center for Students with Disabilities (02-880-8787).	
8. Guidelines for COVID-19 confirmed cases during face-to-face class	Class	<p>Switch to non-face-to-face classes when there are confirmed cases.</p> <ul style="list-style-type: none"> ✘ According to the guidance of SNU Health Service Center/administrative office, if necessary, the test will be conducted, and the class will be held non-face-to-face for 2 weeks ✘ Even if a confirmed case occurs in a classroom or building where face-to-face classes are being held, the classes will be switched to non-face-to-face during the disinfection period according to the guidance of the administrative office. 	

	Students	Confirmed cases, suspected cases, and patients under investigation must act in accordance with the guidelines of the Korea Disease Control and Prevention Agency and also submit 「Application for Recognition of Attendance」 to the faculty to receive recognition of attendance during self-quarantine period ※ Student must attend non-face-to-face classes if possible
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