

COURSE INFORMATION FORM	
Faculty / Institute	Faculty of Economic and Administrative Sciences
Department	Political Science and International Relations
Course Code	SUI 252
Course title	Social Science and Statistics
Instructional Language	English
Programs that can take the course	Must course for Department of Political Science and International Relations and Department of International Entrepreneurship students. Students of other departments can take as an elective course
Course Type	Must
Course Level	B.A.
ECTS Credit	6
Prerequisites	None
Course Content	Statistics are an efficient and accepted way of communicating ideas; they are a means of bridging the gap between implication and inference. Contemporary political science research -- especially public opinion and policy research -- utilizes statistical techniques and, consequently, a basic understanding of these methods is crucial. This course covers a number of statistical tests used in analyzing social science data (e.g., Cross-tab analysis, t-test, F-Test, chi-square analysis, central limit theorem and confidence intervals, and regression).
The Aim of the Course	The aim of this course is to teach, how to analyze quantitative research methods and numerical data. Since modern politics is mainly based on numbers, the course aims to teach numerical logic and especially statistical thinking.
Course Outcomes	At the end of the course students are expected to: - Gain ability to conduct social and political researches, - Gain ability to interpret and analyze numerical data, - Process large data set, by extracting and discovering new dimensions/results.
Textbook and / or References	J. M. Box-Steffensmeier, vd., <i>The Oxford Handbook of Political Methodology</i> , Oxford Handbooks, 2010. Kaan Böke (ed.), <i>Sosyal Bilimlerde Araştırma Yöntemleri</i> , Alfa yay, 4. Baskı.
Evaluation Criteria	
Attendance	10
Lab	None
Application	None
Field Study	None
Homework	20, weekly readings and homeworks of quantitative problems
Presentations	0
Projects	-
Seminar	-
Midterm Exams	40
Quiz	-
Final	30
Total	100
Course Plan	Subjects to Be Discussed
1. Week	Introduction
2. Week	Differences between quantitative and qualitative research methods! Relationship between classification and measurement!
3. Week	What is the Political Science methodology ? Quantitative research methods in Political science.
4. Week	Measures of Location and Dispersion
5. Week	Probability Theory
6. Week	Continuous and discrete probability distributions
7. Week	Mid-Term exam
8. Week	Sampling Theory
9. Week	Hypothesis tests
10. Week	Categorical data analyse (Chi-squared test)
11. Week	Correlation and regression analysis
12. Week	General Evaluation