

University of Rome Tor Vergata
Undergraduate Degree (B.A.) in Global Governance

Course Syllabus
Statistical Tools for Decision-making
9 CFU
Prof. Roberto Rocci

Course description and topics

Theoretical lessons

Introduction

Descriptive Statistics

Scales. Statistical distributions. Graphical representations. Means. Variability. Bivariate distributions: association, regression, correlation.

Probability

Probability of an event. Conditional probability. Random variables. Common families of distributions.

Statistical inference

Sampling. Sampling distributions. Point estimation. Confidence intervals. Testing statistical hypothesis.

Practical lessons

Application of theoretical methods to solve real problems in economic and social sciences.

Textbook

Alan Agresti, Christine Franklin, Statistics: The Art and Science of Learning From Data, Pearson; 3th edition (January 9, 2012).