

Syllabus

Course Description

Course Title	Social statistics
Course Code	17319
Course Title Additional	
Scientific-Disciplinary Sector	SECS-S/05
Language	Italian
Degree Course	Bachelor in Communication Sciences and Culture
Other Degree Courses (Loaned)	
Lecturers	Prof. Giulia Cavrini, GCavrini@unibz.it https://www.unibz.it/en/faculties/education/academic- staff/person/13718
Teaching Assistant	
Semester	First semester
Course Year/s	1
СР	6
Teaching Hours	30
Lab Hours	15
Individual Study Hours	105
Planned Office Hours	18
Contents Summary	The course, which also includes a lab module, aims to provide the foundations of statistical reasoning, offering the tools to understand and analyze social phenomena using quantitative methods. The program includes an introduction to the logic of statistics, the classification of variables, techniques for summarizing and comparing data, the analysis of relationships between variables, and the use of social indices and indicators. The lab module is designed to provide a practical introduction to the analysis of social data using Excel.
Course Topics	During the course, the following topics will be covered:



	 Introduction to statistical methodology and descriptive statistics. Definition of variable, statistical unit, population, and sample. Statistical description of a group: from data collection to the data matrix. Frequency distribution of a variable and its graphical representation. Measures of central trend and position. Measures of variability. Analysis of the association between two variables: the two-way table. Introduction to probability. LABORATORY This part of the course aims to provide students with the statistical informatics tools required for the statistical analysis of the data collected. To this end, lessons will be held in the laboratory, and EXCEL will be used for the statistical analysis of the data matrix:
	Setting up the data matrix.Manipulation of variables and cases: recoding, case selection, separate analysis.
	 - Monovariate analysis: Descriptive statistics, frequency distributions and graphs. - Bivariate analysis: double-entry tables. Measures of relationships for qualitative variables.
Keywords	Definition of variable; Simple and joint frequency distributions; Means; Variability; Definition of Association.
Recommended Prerequisites	Basic mathematics knowledge acquired during high school.
Propaedeutic Courses	
Teaching Format	The course consists of in-person 30 hours of lectures and 20 hours of lab sessions, during which the professor will present the various topics. The lecture content will be delivered using PowerPoint presentations, which will be made available to students on TEAMS. All sessions follow a mixed approach: traditional lecture-based teaching alternates with interactive learning moments, with proportions varying depending on the topic and the type of activity carried out. Typically, the interactive component will be more prominent during in-class exercises and lab sessions.
Mandatory Attendance	In accordance with the regulation



Specific Educational	The aim of the course is to ensure that students acquire a solid
Objectives and Learning	understanding of both the methodological and applied
Outcomes	fundamentals of statistics, relevant to the statistical study of social
	phenomena. Students will develop the ability to identify and apply
	the appropriate statistical tools for describing individual
	phenomena or the relationships between multiple phenomena.
	Knowledge and Understanding. Students will gain knowledge of
	and understand the fundamental concepts of descriptive statistics
	in order to produce data summaries that highlight the key features of the data.
	Applying Knowledge and Understanding. Students will learn to
	apply the methodologies introduced during the course to socio- demographic data.
	Independent Judgment. Students will develop strong independent
	judgment skills and learn to identify the most methodologically
	appropriate techniques to answer specific questions, based on
	empirical evidence provided by the data.
	Communication Skills. Students will learn to use technical statistica
	terminology appropriately and effectively, in order to clearly
	communicate the conclusions drawn from their data analyses.
	Learning Skills. A solid understanding of fundamental statistical
	concepts will enable students to independently continue their
	learning in this discipline.
Specific Educational	
Objectives and Learning	
Outcomes (additional info.))
Assessment	The course examination consists of two parts:
	- A theoretical part, which will be assessed through a written test

containing questions and exercises aimed at verifying both the knowledge and understanding of the course topics, as well as the

- A practical part, assessed through a lab test in which the student

ability to apply this knowledge to practical cases.

	will be required to analyse a dataset, answer the given questions, and describe the results obtained.
Evaluation Criteria	The final grade will be the weighted average of the written exam (5/7) and the lab assessment (2/7). Both parts must be passed in order to pass the exam. Additionally, two in-course (optional) assessments will be held during the semester. Passing both of these (one of which will include the lab part) will count as the final grade, which will be calculated as the weighted average of the two assessments, according to the criteria outlined above. If one of the two partial assessments is not passed, it may be retaken during the final exam. In any case, students may take the final exam if the grades from the in-course assessments are not considered satisfactory.
	 The evaluation criteria for the written exam are: accuracy of the answers provided, appropriateness of comments in sections requiring personal interpretation, and knowledge of the methods needed to solve the proposed exercises. The evaluation criteria for the lab assessment are: knowledge of the software and techniques required to solve the proposed task, and the adequacy of the interpretation of the results obtained.
Required Readings	 M.K. Pelosi, T.M. Sandifer, P. Cerchiello, P. Giudici Introduzione alla statistica, McGraw Hill, 2009 seconda edizione (capitoli 0 - 4). P. Poli EXCEL 2019. Formule e analisi dei dati. Hoepli Informatica. Notes will also be provided by the lecturers.
Supplementary Readings	
Further Information	
Sustainable Development Goals (SDGs)	Quality education