Syllabus

Kursbeschreibung

Titel der Lehrveranstaltung	Statistische und demographische Analyse sozialer Phänomene
Code der Lehrveranstaltung	51119
Zusätzlicher Titel der Lehrveranstaltung	
Wissenschaftlich-disziplinärer Bereich	STAT-03/B
Sprache	Italienisch
Studiengang	Bachelor in Sozialarbeit
Andere Studiengänge (gem. Lehrveranstaltung)	
Dozenten/Dozentinnen	dr. Evan Tedeschi, Evan.Tedeschi@unibz.it https://www.unibz.it/en/faculties/education/academic-staff/person/37256
Wissensch. Mitarbeiter/Mitarbeiterin	
Semester	Zweites Semester
Studienjahr/e	1
KP	6
Vorlesungsstunden	30
Laboratoriumsstunden	10
Stunden für individuelles Studium	110
Vorgesehene Sprechzeiten	18
Inhaltsangabe	See the individual course modules
Themen der Lehrveranstaltung	During the course, the following topics will be covered: • Introduction to statistical methodology and descriptive statistics. • Statistical survey and creation of a questionnaire. • 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 tendency and position. • Measures of variability. • Analysis of the association between two variables: the contingency table. • Elements of demography.
Stichwörter	Definition of variable; Simple and joint frequency distributions; Means; Variability; Definition of Association.
Empfohlene Voraussetzungen	Basic mathematics knowledge acquired during high school.
Propädeutische Lehrveranstaltungen	
Unterrichtsform	The course consists of in-person 30 hours of lectures and 10 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 OLE. 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.
Anwesenheitspflicht	In accordance with the regulation
Spezifische Bildungsziele und erwartete Lernergebnisse	See the individual course modules
Spezifisches Bildungsziel und erwartete Lernergebnisse (zusätzliche Informationen)	The aim of the course is to ensure that students acquire a solid understanding of both the methodological and applied 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 statistical 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.
Art der Prüfung	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 ability to apply this knowledge to practical cases. • A practical part, assessed through a lab test in which the student will be required to analyse a dataset, answer the given questions, and describe the results obtained.
Bewertungskriterien	The final grade will be the weighted average of the written exam (5/6) and the lab assessment (1/6). 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.
Pflichtliteratur	M.K. Pelosi, T.M. Sandifer, P. Cerchiello, P. Giudici *Introduzione alla statistica*, McGraw Hill, 2009 seconda edizione (capitoli 0 - 4).
Weiterführende Literatur	P. Poli *EXCEL 2019. Formule e analisi dei dati*. Hoepli Informatica. A. Rosina e A. De Rose. Demografia. Egea. Milano. 2017.
Weitere Informationen	Lecture notes prepared by the teacher will also be provided.
Ziele für nachhaltige Entwicklung (SDGs)	Hochwertige Bildung

Kursmodul

Titel des Bestandteils der Lehrveranstaltung	Statistische und Demographische Analyse Sozialer Phänomene
Code der Lehrveranstaltung	51119A
Wissenschaftlich-disziplinärer Bereich	STAT-03/B
Sprache	Italienisch
Dozenten/Dozentinnen	dr. Evan Tedeschi, Evan.Tedeschi@unibz.it https://www.unibz.it/en/faculties/education/academic-staff/person/37256
Wissensch. Mitarbeiter/Mitarbeiterin	
Semester	Zweites Semester
KP	5
Verantwortliche/r Dozent/in	

Vorlesungsstunden	30
Laboratoriumsstunden	0
Stunden für individuelles Studium	95
Vorgesehene Sprechzeiten	15
Inhaltsangabe	The course, which also includes a lab module, aims to provide the foundations of statistical and demographic 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 and demographic indices and indicators. The course will also explore technical aspects related to the study of population, with reference to its structure, the events that affect it, and its dynamics.
Themen der Lehrveranstaltung	During the course, the following topics will be covered: • Introduction to statistical methodology and descriptive statistics. • Statistical survey and creation of a questionnaire. • 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 tendency and position. • Measures of variability. • Analysis of the association between two variables: the contingency table.
Unterrichtsform	The course consists of in-person 30 hours of lectures, 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 OLE. 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.
Pflichtliteratur	A. Rosina e A. De Rose. *Demografia*. Egea. Milano. 2017;

	M.K. Pelosi, T.M. Sandifer, P. Cerchiello, P. Giudici *Introduzione alla statistica*, McGraw Hill, 2009 seconda edizione (chapters 0 to 4). Lecture notes prepared by the teacher will also be provided.
Weiterführende Literatur	A. Rosina e A. De Rose. *Demografia*. Egea. Milano. 2017.

Kursmodul

Titel des Bestandteils der Lehrveranstaltung	Statistische und Demographische Analyse Sozialer Phänomene (LAB)
Code der Lehrveranstaltung	51119B
Wissenschaftlich-disziplinärer Bereich	STAT-03/B
Sprache	Italienisch
Dozenten/Dozentinnen	dr. Evan Tedeschi, Evan.Tedeschi@unibz.it https://www.unibz.it/en/faculties/education/academic-staff/person/37256
Wissensch. Mitarbeiter/Mitarbeiterin	
Semester	Zweites Semester
KP	1
Verantwortliche/r Dozent/in	
Vorlesungsstunden	0
Laboratoriumsstunden	10
Stunden für individuelles Studium	15
Vorgesehene Sprechzeiten	13
Inhaltsangabe	The lab module of the Quantitative Social Research course aims to provide a practical introduction to the analysis of social and demographic data using Excel. It will focus on the application of descriptive statistical techniques to the study of social and demographic phenomena, as covered in the theoretical module, with particular attention to the interpretation of results and their communication.

Themen der Lehrveranstaltung	The topics covered in this part of the course, which includes the use of EXCEL, are: - Setting up the data matrix. - Manipulating variables and cases: recoding, case selection, and separate analyses. - Univariate analysis: descriptive statistics, frequency distributions, and charts. - Bivariate analysis: cross-tabulations.
Unterrichtsform	The lessons include hands-on computer use by the students, who will be introduced to the use of EXCEL. Only a few hours will be delivered through traditional lectures, while the majority will involve students working in small groups to analyse datasets provided by the professor.
Pflichtliteratur	Lecture notes prepared by the teacher will be provided.
Weiterführende Literatur	P. Poli *EXCEL 2019. Formule e analisi dei dati*. Hoepli Informatica.