

Course	Psychometrics
Level and study program	Bachelor's degree in Psychology (L-24)
Scientific disciplinary sector (SSD)	PSIC-01/C (ex M-PSI/03)
Academic year	2025-2026
Total number of credits	9
Propedeuticità	---
Professor	Maria Stefania De Simone Nickname: Maria Stefania De Simone Email: mariastefania.desimone@unicusano.it Office hours: please refer to the videoconference schedule. Tutor: Luigi La Fortezza
Presentation of the course and study objectives	The course develops useful knowledge for statistical analysis and data interpretation in research and psychological intervention contexts, starting from an elementary level. For this purpose, the course is structured to confer practical utility to the statistical and data analysis concepts presented in the psychological sciences, communicating the meaning of statistical analyses both in everyday language and in professional forms (e.g., graphs, tables, inferential tests, etc.). The course has the following learning objectives: (1) examine the introductory elements of scientific research in the psychological field and basic terminology; (2) explore the relationship between probability theory and the significance of research results; (3) illustrate the main descriptive indices of data distributions and the corresponding graphic representation methods; (4) examine the conditions for the applicability of the principles of statistical inference and provide an introduction to the basic techniques of inferential data analysis.
Prerequisites	Basic knowledge of General Psychology
Bibliography and resources	Gravetter, F. J., & Wallnau, L. B. (2017). Statistics for the behavioral sciences (10th ed.). Cengage Learning. ISBN: 978-1-305-50491-2 Chapters: - Chapter 1: Introduction to Statistics - Chapter 2: Frequency Distributions - Chapter 3: Central Tendency - Chapter 4: Variability - Chapter 5: z-Scores: Location of Scores and Standardized Distributions - Chapter 6: Probability - Chapter 7: Probability and Samples: The Distribution of Sample Means



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	Chapter 8: Introduction to Hypothesis Testing Chapter 9: Introduction to the t Statistic
Assessment Methods	It is mandatory for students to register for the oral exam. Brief description of the oral exam: the oral exam consists of an interview aimed at assessing the student's level of preparation. The interview typically involves 3 questions (theoretical and/or applied in nature) covering the entire course. Grading: the assessment is expressed in a scale of 30 points, and the minimum passing grade is 18.