

Applied Basic & Intermediate Statistics with SPSS

This course will introduce you to the statistical analysis and reporting that is appropriate to addressing research objectives. It will cover how to determine statistically significant relationships in data and how to draw evidence based conclusions based on data analysis.

Course Outline

Levels of measurement (types of data) and influence of sample size

Data checking and examining statistical significance

Interpreting crosstabulations tables and testing for significant relationships with chisquared and other associations measures (Kendall's Tau, Phi, Gamma)

Looking for relationships through plots, assessing the strength of relationships using correlations

Calculating group means and testing for significant difference between pairs of group means using tests (Independent and Paired Samples)

Calculating mean difference between two or more groups using one-factor anova including a range of post-hoc tests (Scheffe, Bonferroni, LSD, GamesHowell)

Continue to calculate mean differences with two-way factor anova and understand its significance

Introduction to regression analysis (linear equation, residuals, simple, stepwise and multiple regression)

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