

Two-way ANOVA example results

To explore the effect of gender and subject of study on end of degree grades, a two-way between-subjects analysis of variance (ANOVA) was conducted. Descriptive statistics for all variables included in the analysis can be found in Table 1 below.

Table 1.

Descriptive Statistics for Variables Included in Analysis

TABLE HERE IN APA 7th ED STYLE!!!

The interaction effect between gender and subject of study was non-significant; $F(2, 15) = 2.26, p = .14, np^2 = .23$. The main effect of gender was also non-significant ($F(1, 15) = 0.04, p = .85, np^2 = .002$.) indicating that there is no difference in end of degree grades between males and females.

The main effect of the subject being studied by the participants was significant, demonstrating that there is a difference in the end of degree grades obtained between students studying psychology, education, and art; $F(2, 15) = 4.74, p = .03, np^2 = .39$. Multiple comparisons using LSD correction show that there was a significant difference between psychology students and education students ($p = .007$), with psychology students ($M = 68.57, SD = 9.38$) obtaining significantly higher degree grades than education students ($M = 56.00, SD = 8.89$). There was no significant difference between the grades obtained by psychology and art students ($p = .12$), or between art and education students ($p = .16$).

reference to your hypotheses