Mixed Design ANOVA Example Results Section

A 2 x 2 x 3 mixed design ANOVA was conducted to ex*p*lore the effect of gender (male/*F*emale), subject of study (psychology/art) and year of study (year 1/year 2/year 3) on end of year grades. Descriptive statistics for all variables included in the analysis are included in Table 1.

table to be included in APA 7th formatting

The three-way interaction between gender, subject of study and year was non-significant, F (2, 32) = .40, p = .68, np^2 = .02. The two-way interactions between subject of study and gender (F (1, 16) = .15, p = .71, np^2 = .009), subject of study and year (F (2, 32) = .21, p = .81, np^2 = .01), and gender and year (F (2, 32) = .21, p = .81, np^2 = .01) also did not reach statistical significance.

The main effect of gender was non-significant (F (1, 16) = .04, p = .85, np^2 = .002) indicating that there was no difference in overall grades between males and females. The main effect of subject of study was significant, F (2, 32) = 13.25, p = .002, and had a large effect size (partial eta squared = .45). This finding specifies that average end of year grades were significantly higher for students studying psychology (M = 69.10) than those studying art (M = 54.43).

The main effect for year of study was also significant, F (2, 32) = 17.02, p < .001, np^2 = .52, indicating that there is a difference in end of year scores in accordance with the year that students were studying in. Pairwise comparisons show that there was a significant difference between end of year grades at year 1 (M = 59.65, SD = 11.79) and year 3 (M = 64.25, SD = 11.38; p < .05), and between grades at the end of years 2 and 3 (M =61.40, SD = 10.95; M = 64.25, SD = 11.38 respectively).

statement re: your hypothesis would then belong here at the end