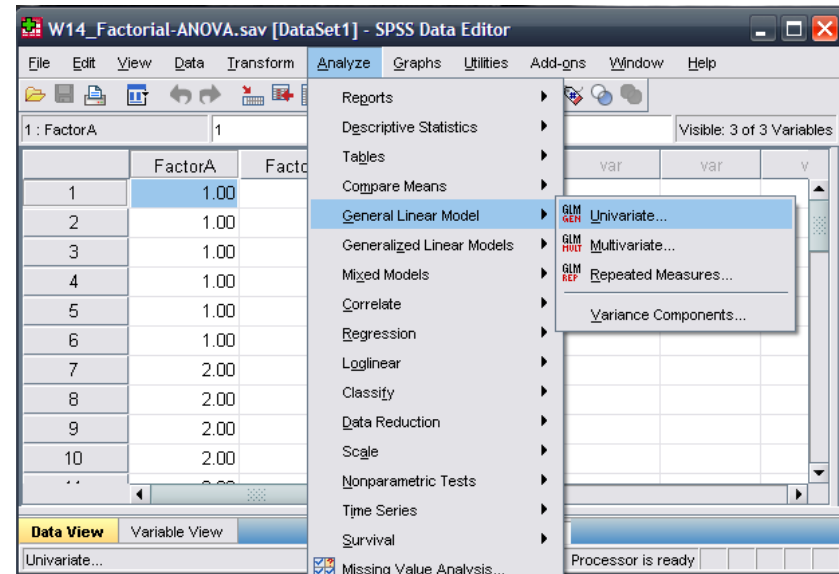


SPSS LESSON: FACTORIAL ANALYSIS OF VARIANCE

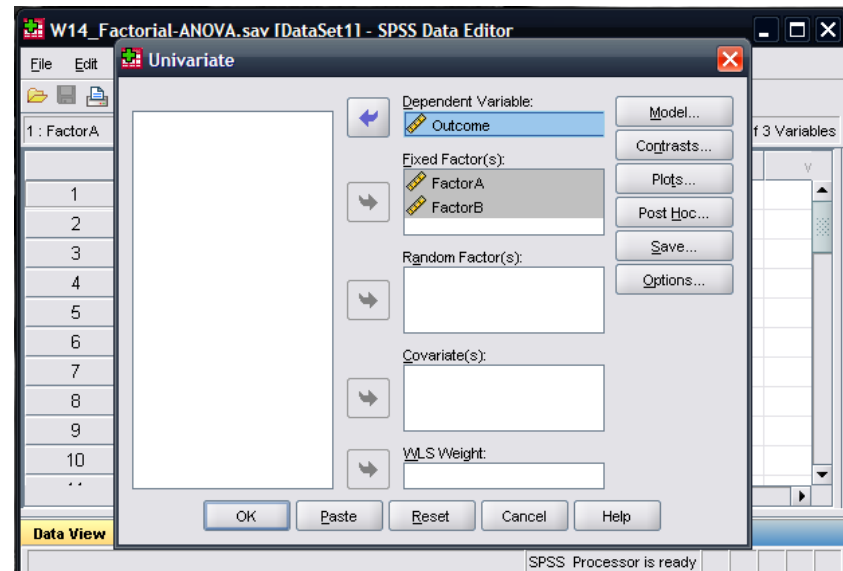
Steps for Obtaining Factorial Inferential Statistics

1. First, enter the data. This is done in the same manner as entering two sample data (described elsewhere) but with additional groups and additional factors.
2. After the data is entered, select the “Analyze → General Linear Model → Univariate” option from the main menu.



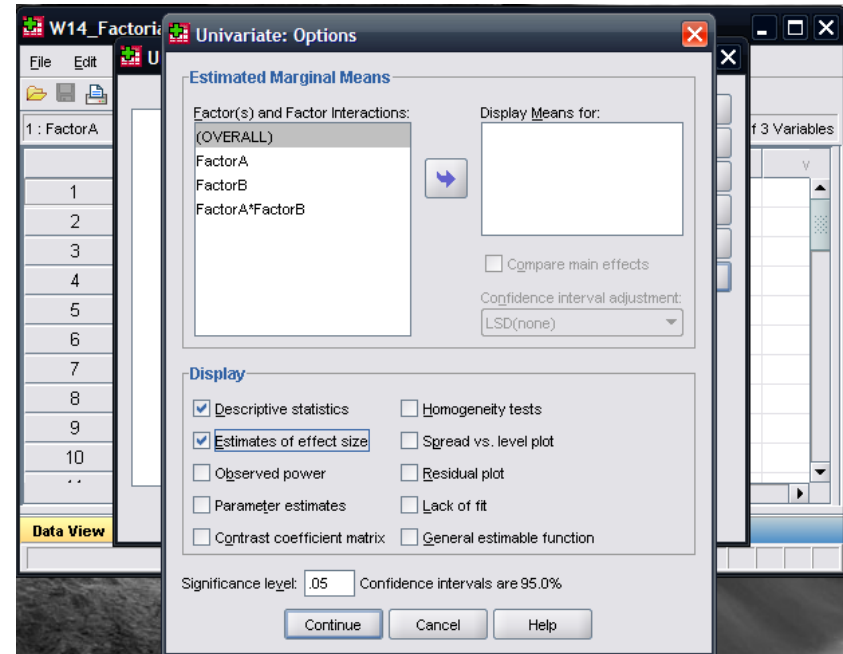
Steps for Obtaining the Significance Test

3. A dialogue box will then appear for you to choose the variables of interest.
4. Select the outcome variable you wish to analyze by clicking on it and hitting the arrow to move them into the “Dependent Variable” box.
5. Move the variable(s) that defines the different groups to the “Fixed Factor(s)” box. Note that SPSS will not require you to enter anything for the interaction if there are multiple factors; it automatically create interactions defined by the factor(s).
6. If all you wish is an ANOVA source table (with no descriptive statistics), click “OK.” A separate window with the output will appear. You will note that this matches the types of output used in class.



Steps for Obtaining Descriptive Statistics

7. If you wish to get the means and standard deviations for each group, select the “Options” button.
8. Another dialogue box will appear where you can choose various statistics. Select “Descriptive statistics.”
9. If you wish to get eta-squared measures for each factor (and the interaction), click on “Estimates of effect size.”
10. When you are done, click “Continue.” This will return you to the original dialogue box. After clicking on “OK” in the original dialogue box, a separate window with the output will appear. You will note that this matches the types of output used in class.



Your data have now been analyzed!