



**BALL STATE
UNIVERSITY**

Module 3 Overview & Checklist

Analysis of Variance

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1 Learning Objective(s)

1.1 Objectives

- In module 2, we discussed the intricacies of avoiding Type I and II errors in hypothesis testing, the connection to statistical power, and how assumption violations can create problems in Type II errors
- In this module, students should be able to:
 - Understand the different possible options to pursue in light of assumption violations
 - Appreciate the use of variable transformations in addressing problems in skew, and using trimming/winsorizing to address kurtosis, i.e., solving problems in normality
 - Understand non-parametric tests as viable alternative to our usual parametric tests, with certain nuances to be aware of in application.

2 Assessments

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Quiz 2 on Module 2 Content on Canvas

3 Lecture(s) & Participation

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Watch Module 3 Lecture on Canvas and Take Notes

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Complete and Turn-in Module 3 Lecture Check-in on Canvas

4 Reading(s)

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Read Chapters 8 and 18 of Textbook

5 Homework & Assignment(s) Due

Under "Assignments" in Blackboard Module

☐ Complete Practical Assignment I on Canvas - Should be done **after** all other work for the week

6 Looking Ahead

☐ Quiz 3 Next Week on Canvas