BALL STATE
UNIVERSITY

Module 8 Overview & Checklist

Analysis of Variance

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Table of Contents

1 Learning Objective(s)

1.1 Textbook Learning Objectives

- Calculate and interpret confidence intervals for estimating a population mean and a population proportion.
- Interpret the Student's t probability distribution as the sample size changes.
- Discriminate between problems applying the normal and the Student's t distributions.
- Calculate the sample size required to estimate a population mean and a population proportion given a desired confidence level and margin of error.

1.2 Instructor Learning Objectives

- Understand the value of calculating a confidence interval in interpreting the "accuracy" of a certain statistic
- Appreciate how the calculation and interpretation of a confidence interval builds upon our previous understanding of distributions and probability
- Value how confidence intervals demonstrate the inherently probabilistic nature of quantitative analysis in research

2 Assessments

☐ Take midterm exam on Canvas by Oct 19 at 11:59pm EST

3 Lecture(s) & Participation

☐ Watch Module 8 Lecture on Canvas and Take Notes

☐ Complete and Turn-in Module 8 Lecture Check-in on Canvas

4 Reading(s)

Under "Readings" in Canvas Module

☐ Read Chapter 8 of Textbook

5 Homework & Assignment(s) Due

Under "Assignments" in Blackboard Module

No Additional Assignments this week

6 Looking Ahead

☐ Quiz 8 Next Week on Canvas