



BALL STATE
UNIVERSITY

Module 9 Overview & Checklist

Analysis of Variance

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1 Learning Objective(s)

1.1 Textbook Learning Objectives

- Differentiate between Type I and Type II Errors
- Describe hypothesis testing in general and in practice
- Conduct and interpret hypothesis tests for a single population mean, population standard deviation known.
- Conduct and interpret hypothesis tests for a single population mean, population standard deviation unknown.
- Conduct and interpret hypothesis tests for a single population proportion.

1.2 Instructor Learning Objectives

- Be able to identify different parts of a hypothesis given a narrative example
- Understand the connection between α , p-values, probability, and Type I and II errors
- Be able to work through practical inferential statistics computations for a single sample scenario

2 Assessments

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Quiz 8 on Module 8 Content on Canvas

3 Lecture(s) & Participation

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Watch Module 9 Lecture on Canvas and Take Notes

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Complete and Turn-in Module 9 Lecture Check-in on Canvas

4 Reading(s)

Under “Readings” in Canvas Module

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Read Chapter 9 of Textbook

5 Homework & Assignment(s) Due

Under "Assignments" in Blackboard Module

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Complete exam debrief reflection survey on Canvas

6 Looking Ahead

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Quiz 9 Next Week on Canvas