



**BALL STATE  
UNIVERSITY**

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# **Module 10 Overview & Checklist**

## **Analysis of Variance**

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# 1 Learning Objective(s)

## 1.1 Textbook Learning Objectives

- Classify hypothesis tests by type.
- Conduct and interpret hypothesis tests for two population means, population standard deviations unknown.
- Conduct and interpret hypothesis tests for matched or paired samples.

## 1.2 Instructor Learning Objectives

- Understand when it is appropriate to test with “two-sample” tests vs “one-sample” tests, as described in Module 9
- Appreciate the different conditions and assumptions that must be met for each of the two-sample tests
- Be able to correctly choose an appropriate test, when reading a narrative/anecdotal example of “real variables”
- Understand the difference between “paired” and “independent samples”

# 2 Assessments

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Quiz 9 on Module 9 Content on Canvas

# 3 Lecture(s) & Participation

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Watch Module 10 Lecture on Canvas and Take Notes

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Complete and Turn-in Module 10 Lecture Check-in on Canvas

# 4 Reading(s)

*Under “Readings” in Canvas Module*

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Read Chapter 10 of Textbook

## 5 Homework & Assignment(s) Due

*Under "Assignments" in Blackboard Module*

☐ Complete Practical Assignment III on Canvas

## 6 Looking Ahead

☐ Quiz 10 Next Week on Canvas