



**BALL STATE  
UNIVERSITY**

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# **Module 11 Overview & Checklist**

## **Analysis of Variance**

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## 1 Learning Objective(s)

### 1.1 Textbook Learning Objectives

- Interpret the chi-square probability distribution as the sample size changes.
- Conduct and interpret chi-square goodness-of-fit hypothesis tests.
- Conduct and interpret chi-square test of independence hypothesis tests.
- Conduct and interpret chi-square homogeneity hypothesis tests.
- Conduct and interpret chi-square single variance hypothesis tests.

### 1.2 Instructor Learning Objectives

- Appreciate how the chi-square family of tests largely depart from the previous mean-based testing in t-tests
- Understand what scenarios each form of the chi-square test may be appropriate to
- See how the chi-square family of tests add to our toolbox of inferential tests

## 2 Assessments

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Quiz 10 on Module 10 Content on Canvas

## 3 Lecture(s) & Participation

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Watch Module 11 Lecture on Canvas and Take Notes

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Complete and Turn-in Module 11 Lecture Check-in on Canvas

## 4 Reading(s)

*Under "Readings" in Canvas Module*

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Read Chapter 11 of Textbook

## 5 Homework & Assignment(s) Due

*Under "Assignments" in Blackboard Module*

*No Additional Assignments this week*

## **6 Looking Ahead**

☐ Quiz 11 Next Week on Canvas