



BALL STATE
UNIVERSITY

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