



**BALL STATE**  
**UNIVERSITY**

---

# **Module 11 Overview & Checklist**

## **Analysis of Variance**

---

Quinton Quagliano, M.S., C.S.P

Department of Educational Psychology

## Table of Contents

<b>1</b>	<b>Learning Objective(s)</b>	<b>2</b>
1.1	Textbook Learning Objectives . . . . .	2
1.2	Instructor Learning Objectives . . . . .	2
<b>2</b>	<b>Assessments</b>	<b>2</b>
<b>3</b>	<b>Lecture(s) &amp; Participation</b>	<b>2</b>
<b>4</b>	<b>Reading(s)</b>	<b>2</b>
<b>5</b>	<b>Homework &amp; Assignment(s) Due</b>	<b>2</b>
<b>6</b>	<b>Looking Ahead</b>	<b>3</b>

# 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

☐

Quiz 10 on Module 10 Content on Canvas

# 3 Lecture(s) & Participation

☐

Watch Module 11 Lecture on Canvas and Take Notes

☐

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

# 4 Reading(s)

*Under "Readings" in Canvas Module*

☐

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