



Module 8 Overview & Checklist

Analysis of Variance

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

Department of Educational Psychology

Table of Contents

1	Learning Objective(s)	2
1.1	Textbook Learning Objectives	2
1.2	Instructor Learning Objectives	2
2	Assessments	2
3	Lecture(s) & Participation	2
4	Reading(s)	2
5	Homework & Assignment(s) Due	3
6	Looking Ahead	3

1 Learning Objective(s)

1.1 Textbook Learning Objectives

- Calculate and interpret confidence intervals for estimating a population mean and a population proportion.
- Interpret the Student's t probability distribution as the sample size changes.
- Discriminate between problems applying the normal and the Student's t distributions.
- Calculate the sample size required to estimate a population mean and a population proportion given a desired confidence level and margin of error.

1.2 Instructor Learning Objectives

- Understand the value of calculating a confidence interval in interpreting the "accuracy" of a certain statistic
- Appreciate how the calculation and interpretation of a confidence interval builds upon our previous understanding of distributions and probability
- Value how confidence intervals demonstrate the inherently probabilistic nature of quantitative analysis in research

2 Assessments

- Take midterm exam on Canvas by Oct 19 at 11:59pm EST

3 Lecture(s) & Participation

- Watch Module 8 Lecture on Canvas and Take Notes
- Complete and Turn-in Module 8 Lecture Check-in on Canvas

4 Reading(s)

Under "Readings" in Canvas Module

- Read Chapter 8 of Textbook

5 Homework & Assignment(s) Due

Under “Assignments” in Blackboard Module

No Additional Assignments this week

6 Looking Ahead



Quiz 8 Next Week on Canvas