



Week 10 Overview

Undergraduate Research Methods in Psychology

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1 Last Week Review

- We talked about nuances in multivariate research, and how it expands upon the foundation laid by bivariate research.
- We explained how some aspects of multivariate research lend themselves to explaining causal criteria, but that a good, internally valid causal claim is still just out of reach.
- We discussed the strengths and weaknesses of longitudinal and multiple regression designs, and how they can be interpreted and understood.

2 Learning Objective(s)

- Apply the three criteria for establishing causation to experiments and explain why experiments can support causal claims.
- Identify an experiment's independent, dependent, and control variables.
- Classify experiments as independent-groups and within-groups designs and explain why researchers might conduct each type of study.
- Evaluate three potential threats to internal validity in an experiment— design confounds, selection effects, and order effects—and explain how experimenters usually avoid them.
- Interrogate an experimental design using the four validities.

3 Lecture(s) & Participation

- ☐ Week 10 Class Meeting on Monday, Mar 17 at 6:00pm EST
- ☐ **Week 10 Lecture and notes** on experimental research
- ☐ Q & A / Lecture Check-in due Monday, Mar 17 at 9:00pm EST in class
- ☐ **Week 10 Activity: Analysis Reading** due Monday, Mar 17 at 9:00pm EST in class

4 Reading(s)

- ☐ Chapter 5
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5 Homework & Assignment(s) Due

☐ **Research Proposal Measures and Sampling** due on Sunday, Mar 23 at 11:59pm EST on Blackboard (look at research proposal instructions document for more details)

6 Assessments

☐ **Quiz 9** due Monday, Mar 17 at 9:00pm EST in class

7 Looking Ahead

- Keep pressing through! One more round of homework and research proposal assignment and then we are in the final stretch!