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## **Week 9 Overview**

Undergraduate Research Methods in Psychology

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## 1 Last Week Review

- We had spring break!
- We began explaining and exploring bivariate correlational research designs - those that contain two measured variables, usually in an association claim.
- We discussed the different ways of exploring the validity of association claims in bivariate correlational designs, with particular interest paid towards statistical validity.
- We also talked about how and why internal validity *isn't applicable* to association claims.

## 2 Learning Objective(s)

- State why simple bivariate correlations are not sufficient for establishing causation.
- Explain how longitudinal correlational designs can establish temporal precedence.
- Explain how multiple-regression analyses can rule out some (but not all) third variables.
- Describe the value of pattern and parsimony, in which a variety of research results support a single, parsimonious causal theory.
- Explain the function of a mediating variable.
- Understand the relative strengths and weaknesses of a multivariate design, compared to bivariate designs
- Be able to describe interpreting longitudinal and multiple regression designs, and interpret statistical values from these designs

## 3 Lecture(s) & Participation

- ☐ Week 9 Class Meeting on Monday, March 10 at 6:00pm EST
  - ☐ **Week 9 Lecture and notes** on multivariate correlative research
  - ☐ Q & A / Lecture Check-in due Monday, Mar 10 at 9:00pm EST in class
  - ☐ **Week 9 Activity: Peer Review I** due Monday, Mar 10 at 9:00pm EST in class
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## 4 Reading(s)

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Chapters 6-7

## 5 Homework & Assignment(s) Due

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**Homework 4** due on Sunday, Mar 16 at 11:59pm EST on Blackboard (look at homework instructions document and instructor example for more details)

## 6 Assessments

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**Quiz 8** due Monday, Mar 10 at 9:00pm EST in class

## 7 Looking Ahead

- If you have spare time and are feeling inspired, try to continue improving your research proposal and spending time with it!