

# Research Methods 2 Labs Spring 2014

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## Goals

The lab section of Methods 2 will review and build upon SPSS procedures learned in Methods 1. The first 3 lab sessions will be a review of procedures and functions which were covered in Methods 1 and the remaining labs will cover advanced analyses. By the end of the semester, you should be able to carry out and interpret the most common analyses associated with psychological research.

## Attendance

Attendance will not be taken during lab. However, it is highly recommended that you attend all labs and work sessions.

## Lab Vodcasts

The second through fourth labs (February 14, 21 & 28) are posted as videos and should be viewed BEFORE attending the lab sessions. Those lab times will be used for working on the assignments due the following week. All other labs will occur entirely during normal lab time and will be recorded and posted. However, you should not rely primarily on those vodcasts as technological and equipment failures do occur and some labs may not be posted at all.

For all other labs outside of February: Labs will begin promptly at the scheduled start time due to the amount of material which needs to be covered each week. If you arrive late, please pair up with someone else so you are able to keep up with the material being covered. If there is extra time at the end of lab, I will stay behind and assist you in your assignments / projects and answer other questions.

## Assignments and Projects

Although I will cover all analyses and procedures in the lab/vodcasts, you need to work through them on your own with multiple data sets. The point of the assignments is to allow you to do this and identify any issues you are having BEFORE a project is due.

Each person should turn in their own assignment on BlackBoard, however, you are permitted to work together on the assignments if you so wish. Each assignment is worth 5 points.

The 3 assigned projects serve as a measure of your understanding of the analysis / procedures associated with the labs which precede its due date. They also prepare you for completing the final project, and offer an important chance to receive feedback on your statistical reporting style. Each project is due at 9 am on the associated due date and should be turned in to Prof. Frantz during class. **YOU ARE NOT ALLOWED TO WORK TOGETHER ON PROJECTS.** Each project comprises 5% of your final grade and cannot be longer than 3 pages.

### Extra Help

In addition to my office hours above, I am also available for extra help with lab assignments or any other Methods 2 questions you may have. You are free to ask questions via email as well, however I cannot guarantee timely responses, particularly on the weekend or late at night. As a general rule, if you email me a question after 9 pm Monday through Thursday, I will not address it until the following day. If you email me a question between 9 pm on a Friday and 9 am the following Monday, do not expect a response until after 10 am the following Monday.

### General Advice and Tips

Try to work on the assignments as close to lab session time as possible. The projects are designed to be worked on incrementally before their due date. Do not wait until the last minute to work on your assignments and projects!

If you have problems with a particular procedure or analysis, contact me as soon as possible. Once you fall behind, it becomes extremely difficult to make up for lost time.

Any changes made to the schedule or due dates will be announced in class, lab and/or on Blackboard.

## Schedule of Lab Topics & Assignments

<u>Date</u>	<u>Topic</u>	<u>Assignment</u>
February 7	Introduction	No assignment
February 14	Descriptive Statistics	Obtain frequencies for the IV “zodiac” and descriptive statistics for the DV’s in your project. Edit the tables in SPSS to APA format, then copy the edited tables and syntax from the SPSS output and paste them into a Word document.
February 21	Computing / Recoding Variables, T-Tests & Cohen’s D	Pick 2 zodiac signs to compare using an independent samples t-test for each of your DV’s. Report t, df, sig & Cohen’s d for each test.
February 28	One-way anova	Run 3 one-way ANOVAs using “polviews” as the IV and “chids”, “attend” and “agewed” as DV’s. Report results in APA format.
March 7	Project 1 work session.	No assignment.
March 14	Two factor anova	<b>PROJECT 1 Due @ 9 AM</b> Simple effects analysis from 2-way ANOVA.
March 21	Repeated Measures ANOVA	No assignment due.
<i>March 28</i>	<i>**** SPRING RECESS ****</i>	<i>**** SPRING RECESS ****</i>
April 4	Mixed model ANOVA	Complete all necessary post-hoc analysis for the within subjects factors of the primate data.
<b>April 9</b>	<b>PROJECT 2 Due @ 9 AM</b>	<b>PROJECT 2 Due @ 9 AM</b>
April 11	Project 3 work session	Mixed model analysis of primate data.
April 18	Multiple regression	No assignment.
<b>April 21</b>	<b>PROJECT 3 DUE @ 9 AM</b>	<b>PROJECT 3 DUE @ 9 AM</b>
April 25	Multiple regression interactions	Report and describe correlation between anxiety & performance and the partial correlation controlling for difficulty. Report and describe linear regression of anxiety and difficulty on performance.
May 2	ANCOVA	Report and describe regression with interaction terms (including equation), split file analysis (including equations), and graph interaction. Summarize and interpret results.
May 9	ANCOVA	No assignment.

