

**Psychology 611 Lab
FALL 2006**

Instructor:	David Cades
Office:	David King 2064
Office Hours:	M:10:30-11:30am & 4:30-5:30pm and by appointment
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Class Location:	Innovation Hall 330
Class Section 205/Date/Time:	Monday 6:00pm-7:50pm
Class Section 206/Date/Time:	Monday 8:00pm-9:50pm
Class website:	http://mres.gmu.edu/pmwiki/pmwiki.php/Main/611Lab

Objectives

Whether you want to be here or not you are in fact in a lab for a statistics course. All the TA's have all been in the position you are in now. Hopefully, you will come to see the importance of statistics in the psychology as we have. The three goals for the lab are simple:

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| 1. | Conduct statistical analyses |
| 2. | Increase statistical comprehension |
| 3. | Reduce your fear of statistics |

Structure

Application

The first half of lab will be spent conducting analyses. Every lab you and a partner (of my choosing) will conduct an analysis. Then by yourself, you will write-up the intention of the analysis, analysis results, and your interpretation of the analysis results. The write-up is due within 24 hours.

Discussion

The second half of the 6:00-7:50pm lab will be a group discussion. This 7:00-7:50pm time period is the only discussion section. If you are in the later lab and want to attend the discussion, show up to the lab at 7:00pm. Any Ph.D. students in the Monday labs must be registered for the 6:00-7:50pm labs. The discussion will emanate from the lab readings (found on the website). This half of the lab is for all interested persons but only the Ph.D. students are required to attend. All students that attend the discussion must complete the readings before lab.

Lab Report Criteria

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|----|-------------------------|
| 1. | Analysis Intention |
| 2. | APA Formatted Results |
| 3. | Analysis Interpretation |

Name

Your name, G-number, and section number need to be at the top of the lab report.

Analysis Intention

Start your write-up by detailing the reasoning for the analysis. Identify the assumptions and logic for the analysis and why it is appropriate for that week's specific data set.

APA Formatted Results

Follow-up the analysis intent section with an APA formatted results section. The Publication Manual of the American Psychological Association (Fifth Edition) contains very regimented instructions for publishing analysis results. Write a results paragraph following the APA guidelines. We may require additional information depending on the particular analysis, you will be notified in lab.

Analysis Interpretation

In your final section, you must explain to me what the analysis output means. This must be a comprehensive explanation of every aspect of the output including: inferences you would make on the data, what the MS, SS, r , R-Squared, F-ratio, significance levels indicate, and other various relevant parameters.

Attendance

The lab is where you will learn what analysis you must conduct. If you miss the lab it is your responsibility to ask your lab partner what work you need to perform. Your absence may cause undue pressure for your partner, thus it will be greatly beneficial if you attend lab and is likely to be detrimental to your grade if you do not. You cannot switch labs.

Readings

Read the assigned lecture readings before lab. Read and view the relevant statistical analysis tutorials BEFORE lab. All additional readings are required for the Ph.D. students and optional for everyone else. These additional readings are available on the lab website.

Grading

There will be an analysis to run every lab meeting. Your write-ups will be graded as complete/incomplete not for correctness. All work is due within 24 hours of the lab. We will make corrections and return your work. Late work will be corrected but you will not receive credit for the write-up. You may have to conduct additional analyses that are not listed on the syllabus.

The discussion section of the lab is required only for the Ph.D. students and your participation will affect your grade. Participation will also be a binary score for each lab. You will either be judged to have read the material and contributed to the discussion or not. The discussion section only effects the Ph.D. students grades.

Your score is based upon simply dividing the amount of points you received by the total amount possible.

Statistical Program

The default package is SPSS, but consult your advisor to determine what package would work best for you.

Tentative Schedule

The schedule is subject to change.

Lab:Date	Topic	Analysis
lab1: 8/28	Introduction	Find a statistical program
lab2: 9/4	No Lab	Labor Day
lab3: 9/11	Methodology	analysis 1 & vignettes
9/12	last day to	add classes
lab4: 9/18	Methodology	analysis 2 & vignettes
lab5: 9/25	Basic analyses	analysis 3
9/29	last day to	drop classes
lab6: 10/2	Basic analyses	analysis 4
lab7: 10/9	Univariate	analysis 5
lab8: 10/16	Bivariate	analysis 5
lab9: 10/23	Data Management	analysis 7
lab10: 10/30	Data Management	analysis 8
lab11: 11/6	MRC	analysis 9
lab12: 11/13	MRC	analysis 10
lab13: 11/20	ANCOVA/MANCOVA	analysis 11
lab14: 11/27	Repeated Measures	analysis 12
12/1	lit. review	due
lab13: 12/4	Adv. Stats	analysis 13
12/10	lit. review	grade due
12/18	FINAL EXAM	1:30pm-4:15pm

Disability Accommodations

If you are a student with a disability and you need academic accommodations, please see me and contact the Disability Resource Center (DRC) at 703-993-2474. All academic accommodations must be arranged through that office.

Academic Honesty

I must state for the record that cheating of any kind will be dealt with by rules set forth in the University Honor Code (see <http://www.gmu.edu/catalog/apolicies/index.html>). I prefer never to have any academic integrity issues arise during the semester. The aim of graduate education is to learn material that many others have not learned and master this material to ensure your future success. The degree you receive reflects the hard work you put into the course work. Please do not cheat yourself by misrepresenting your effort. Do the work or accept the grade like an adult.