



### **Learning Adjustments:**

Contact Jordan as soon as possible if you have been diagnosed with a learning disability (confirmed by the Academic Learning Center) or have some other special needs that may require adjustments for you to learn/understand the material. Disability Services web site: <http://ds.uoregon.edu/>.

**1. Readings.** The primary text we will use for this course is Judd, C. M., McClelland, G. H., and Ryan, C. S. (2009). *Data Analysis: A Model Comparison Approach* (second edition). This book does a great job of organizing the topics of data analysis. Each chapter builds upon the previous chapters, thus we will follow the book sequentially. You will also be given supplemental reading materials for certain topics. When this is the case, you will be supplied with a PDF of the reading on the course website.

**2. Participation.** Missing class may leave you confused, and missing lab will make it VERY difficult to complete the homework correctly. Do not expect the instructors to repeat material they already presented in class or lab; office hours are best used for review and discussion of material after doing the reading and attending lecture, and for help with homework. Slides from lecture will be posted on Blackboard, but you may want to arrange to share notes with a classmate since much of the material will be presented on the whiteboard and may not be found on the slides.

**3. Homework.** Homework is assigned every week in lab (including the first week, but not the last week), and is due by the start of lab the following week. All work should be legible and where appropriate typed, with accompanying graphs and data output. There will be some work that is more appropriately written out by hand, including by-hand calculations, formulas, and model descriptions (this will be covered in more detail during lab). All written work should conform to APA 5th Edition style; this style was covered in PSY 303 which is a prerequisite for this class.

Homework will generally consist of a number of "problem sets" which will typically be a combination of hand calculations and analysis using a statistical analysis program. You will also be asked to complete a discussion of the analyses in an APA-style results section. You may work with other classmates currently enrolled in the class to complete the problem set, but **nobody else**.

The entire homework assignment must be *written and produced* by you; you may not copy any other student's words, tables, or statistical output. You should generate your own analyses and write up the results yourself in APA style. If you need further assistance, schedule an appointment with an instructor. Answer keys will not be provided, but common mistakes will be discussed in class. All homework will be submitted via Blackboard.

Late homework: Homework will be accepted up to 4 day late. There will be a 10% deduction per day late (your score multiplied by .9 if one day late, .8 if two days late, etc.)

**4. Statistical software.** Use of a statistical software package is necessary for completion of the homework assignments. You may use any software package (for instance, R, SAS, SPSS, Stat-A, Minitab, Excel, etc.) so long as your results are correct and clearly presented (must be able to

provide SSE data for entire model). However, the lab for this class will show you how to conduct analyses in SPSS, and support will only be provided for SPSS. SPSS is available on all the computers in the Straub computer lab.

**5. Exams.** There will be a midterm and a final, both of which are take-home. Yes, there is homework due the week the midterm is due, but the midterm will not include material from that week's homework. The midterm exam will be distributed via email the Tuesday of week 5 and be due via email the Tuesday of week 6; the final will be distributed on the last day of class and due one week thereafter, via email (during finals week).

**Graduate Students (512)** will have additional requirements to be discussed individually, but typically will include analysis (or planned analysis) of your data.

**6. Grading (approximate):**

Homework assignments: 50% total (best of 8, all 9 must be turned in)

Midterm: 20%

Final: 30%

**7. Cheating.** Cheating consists of copying any words, tables, or formulae not generated by yourself on a homework or exam, or discussing any component of an exam with any non-instructor (i.e., either providing or asking for help). If cheating is discovered, it will be discussed with the student, and will almost certainly result in a failing grade in the course, a report to the university, and/or additional penalties in accordance with the student conduct code.

**What is NOT cheating?** Collaborative learning; that is, getting or providing help on the homework. Meeting to compare notes on homework (in person or online) can help everyone do well. Planning a time to sit in the Straub lab to complete and discuss the homework with friends is encouraged! However, don't just copy what someone else has done—complete the homework yourself. Also, do not read or share documents that will actually be turned in! Complete the homework yourself. For the **final and midterm**, no human collaborators are permitted (but use of books, pre-existing websites, etc. is permitted).

**8. Class Etiquette & Norms:**

- Arrive on time and stay for the entire class.
- Treat your fellow students and your instructors with respect.
- Turn the ringer off on your cell phone during class.
- Ask questions and speak up during class.
- Stop by and see Jordan and Erik during office hours.
- Attendance is **not** required; **do not** attend class at all if you cannot meet these norms.

**Tentative Course Schedule:**

	<b>Assigned Readings</b>	<b>Topics Covered</b>
Week 1	<b>Preface, Chapter 1 due Thu</b>	Summary statistics, models and error
Week 2	<b>Chapters 2-3</b>	Definitions of error and parameter estimates. Models of error and Sampling distributions
Week 3	<b>Chapter 4</b>	Inference, power, confidence intervals (one-sample t-test)
Week 4	<b>Chapter 5</b>	Simple regression (correlation/regression)
Week 5	<b>Review 1-5 Chapter 6</b>	Mid-Term (Chapters 1-5) Multiple regression
Week 6	<b>Chapter 8</b>	One-way ANOVA
Week 7	<b>Chapter 9</b>	Factorial ANOVA (two-way ANOVA)
Week 8	<b>Chapter 10</b>	ANCOVA (models with continuous and categorical predictors)
Week 9	<b>Chapter 11 (or Topics of Interest)</b>	Repeated-Measures ANOVA (Nested design and dependent error)
Week 10	<b>Finish Chapter 11 Review</b>	Final Exam (Chapters 1-10)