LING79300 & 73900  Statistics for Linguistics Research (& Practicum)  SYLLABUS (rev.07/20/13)
CRNs: 21912 & 21913  Mondays 4:15-6:15pm & 6:30-8:30pm  Rooms TBA

Instructor: Martin Chodorow  E-mail: martin.chodorow@gmail.com
Office: 7208 (GC)  Hours: Mondays 2:30-4:00pm & after class; other times by appt
Office: 512 TH (Hunter)  Hours: Thurs 7:00-9:00pm; other times by appt

Text:
Plus additional readings (see Blackboard)

*Homework Assignments can be found in Course Materials on Blackboard.

DATE  READINGS  *HOMEWORK DUE
09/02*** LABOR DAY – Classes do not meet
__________________________________________________________
Week 1 (09/09) Introduction
Chapter 1 Why is my evil lecturer forcing me to learn statistics?  09/16
Chapter 3 The IBM SPSS Environment (skim)
Chapter 4 Exploring Data with Graphs (pp. 121-140)
Additional readings (recommended if you need to review some basics of math)
“Appendix A: Arithmetic Review”
http://www.uvm.edu/~dhowell/fundamentals/ArithmeticReview/review_of_arithmetic_revised.html
http://www.phon.ucl.ac.uk/cgi-bin/wtutor?tutorial=t-log.htm (an excellent tutorial on logarithms)
__________________________________________________________
Week 2 (09/16) One Sample: Tests of Location
Chapter 2 Everything you always wanted to know about statistics  09/23
__________________________________________________________
Week 3 (09/23) Continuation of Sampling Theory, Effect Size & Power, and NHST
Chapter 2 continued
Chapter 5 The Beast of Bias (pp. 163-172; 179-191; 196-211)  09/30
__________________________________________________________
Week 4 (09/30) Association and Prediction Between Two Variables
Chapter 7 Correlation continued (pp. 179-196)   10/07
Chapter 8 Regression (pp. 293-320)
__________________________________________________________
Week 5 (10/07) Continuation of Regression  10/15
__________________________________________________________
10/14*** COLUMBUS DAY – Classes do not meet
Week 6 (10/15)*** Classes follow a Monday schedule
Two Samples; Tests of Differences
Chapter 9 Comparing Two Means  10/21
Chapter 6 Non-Parametric Models (pp. 213-228)
__________________________________________________________
Week 7 (10/21) Partial Correlation
Chapter 7 Correlation continued (pp. 179-196)  10/28
__________________________________________________________
Week 8 (10/28) Using More than One Predictor
Chapter 8 Multiple Regression (pp. 321-353)   11/04 (take-home midterm)
__________________________________________________________
Week 9 (11/04) Multiple Regression continued  11/11
Week 10 (11/11) Multiple Samples
   Chapter 11 Comparing several means: ANOVA (GLM 1)  11/18

Week 11 (11/18) Multiple Factors; Interactions
   Chapter 13 Factorial ANOVA (GLM 3)  11/25

Week 12 (11/25) Repeated Measures & Mixed Designs
   Chapter 14 Repeated Measures Designs (GLM 4)  12/02
   Chapter 15 Mixed Designs (GLM 5)

Week 13 (12/02) Random Effects; Mixed Effects Models  12/09
   Brysbaert “The language-as-fixed-effect fallacy: Some simple SPSS solutions…”
   Additional readings TBA

Week 14 (12/09) Categorical Data: Chi-Square & Logistic Regression  12/16
   Chapter 18 Categorical data (Chi-square) (pp. 720-746)
   Chapter 19 Logistic Regression

Take-Home Final due **12/23**

Grades will be based on homework assignments (33%), a take-home midterm exam (33%), and a take-home final exam (33%). Your 3 lowest homework grades will be dropped before your homework average is computed.