Selected Topics in Statistics 2009

Instructor: Tamre Cardoso

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Course Website: http://faculty.washington.edu/tamre/stp.shtml

Office Hours: The TA's and I will have a rotating schedule in the IC during study hall

Lectures: W, F 9:00-10:20 in More 220 first week; M, W 9:00 – 10:20 in More 220 weeks 2 – 4

On August 3, 5, 10, and 12 we will have access to a campus computer lab. On these days you will be split into two groups. Group 1 will go lecture and then to the lab; group 2 will go to the lab and then to lecture—more on this later.

Course Objectives: This course will introduce you to some exploratory data analysis techniques as well as the concepts of hypothesis testing. We will emphasize conceptual understanding, while teaching statistical methods that can be used to help you answer your research question(s) for your psychology projects. You will learn to do some calculations by hand and others will be taught using computer software.

Attendance/Class Policies: Attendance and participation, in both lectures and quiz sections, are expected. It is your responsibility to know the course requirements and to be aware of any announcements. Classes begin promptly as scheduled. Arriving late or leaving early is disruptive and should be avoided.

Our role as instructor and TAs is to facilitate your learning. We work under the assumption that you are interested in the subject at some level, and are in this course to learn. It is not our responsibility to give you a good grade, but rather it is up to you to earn your grade. Please ask when you have questions about course material---we will be more than willing to work with you to answer your questions.

Grades: There will be no midterm or final exams. Grades will be based on the two homework assignments (10% each), two quizzes (15% each), and your poster presentation (50%). Your final course grade will be CREDIT or NO CREDIT. A student must obtain a score of at least 60% to obtain a grade of CREDIT.

Tentative Lecture Schedule

Date	Topic
Wednesday, July 29	Introduction; Exploratory Data Analysis
Friday, July 31	Exploratory Data Analysis Continued
Monday, August 3	Correlation; Introduction to Hypothesis Testing
Wednesday, August 5	Hypothesis testing for means and proportions
Monday, August 10	More hypothesis testing, ANOVA or chi-square
Wednesday, August 12	TBD
Monday, August 17	Practice Group Presentations
Wednesday, August 19	Practice Group Presentations

Tentative Homework Due Dates and Quiz Dates

Homework due dates: Wednesday 8/5, Wednesday 8/12

Take-home Quiz dates:
    Quiz 1: Handed out during quiz section on Wednesday 8/5; hand in at IC by 9PM on 8/5
    Quiz 2: Handed out during quiz section on Wednesday 8/12; hand in at IC by 9PM on 8/13

Draft of Methods section and an outline for the Results section for poster due in Stat quiz section on Wednesday 8/5

Draft of Results and Discussions sections of poster due in Stat quiz section on Wednesday 8/12

First draft of Posters due during IC study hall on Thursday 8/13—email a copy to your TA

Second draft of Posters due during IC study hall on Sunday 8/16—email a copy to me and your TA