PSY 2801: Introduction to Statistics and Measurement

Ben Babcock, Instructor
Office Hour: Tuesdays 4:30 – 5:30 pm
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http://www.psych.umn.edu/courses/fall07/babcockb/psy2801/default.htm

Section Leaders:

Jamie Derringer
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David Klieger
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Additional office hours can be arranged by appointment.

Book: Howell, D. C. (2007) *Fundamental Statistics for the Behavioral Sciences*.

Purposes of the Course

1. This course will teach students some very basic statistics and measurement concepts.
2. This course will teach students about statistics in research situations and in everyday "news clipping" situations.
3. This course will reduce the number of burning suns fueling your (yes, I specifically mean YOUR) hatred toward statistics and possibly general mathematics.

It's Just Good Policy

Participation: This class will require your participation. Please ask questions. Please volunteer for answers when we ask questions. If you do not, we will call on individuals.

Disabilities and Special Needs: Please notify Ben AND notify University Disability Services to contact Ben concerning your special need. ds@umn.edu

Plagiarism: Plagiarism is the use of any other person's writing or ideas without giving proper citation. This includes both published and unpublished works. Plagiarism will not be tolerated and will be punished by a severe loss of points on the assignment or a failing grade in the course.

Cheating: Cheating is the use of any resource on an examination or assignment that is not approved by the professor. Cheating will result in a student receiving an "F" grade for the course.

Athletes: Athletes that are traveling to participate in a University of Minnesota sporting event must notify Ben at least 2 weeks prior to the event to make accommodations if an exam is missed. For labs, please contact your section leader. Go Gophers!

Miscellaneous: There may be situations that arise that this syllabus does not explicitly address. Ben Babcock has the final say in any situation or circumstance. This syllabus is subject to change.

Anybody still reading after all that?

Grades

Your grade will consist of points totaling from lab assignments, three exams, ungraded quizzes, and lab participation. WE DO NOT ACCEPT LATE LAB ASSIGNMENTS FOR ANY REASON!!! We are allowing you to drop your two lowest assignments instead. Use your drops wisely. Here is the point breakdown:

Assignment	Points
10 Lab Assignments – 2 Drops	80
Exam 1	80
Exam 2	80
Final Exam	100
Ungraded Quizzes	10
Lab Participation	10
Total	360

We (Babcock, Klieger, & Derringer, 2007) will assign grades as below:

Grade	Percentage	Lowest Pts. Possible
A	92 - 100	331
A-	90 – 91.99	324
B+	87 – 89.99	313
B	82 – 86.99	295
B-	80 – 81.99	288
C+	77 – 79.99	277
C	72 – 76.99	259
C-	70 – 71.99	252
D+	67 – 69.99	241
D	62 – 66.99	223
D-	60 – 61.99	216
F	59.99 down	0

This grading scale is subject to change.

Exams

The three exams will be similar in format. The first portion of the exam will consist of mostly multiple choice questions and possibly a fill-in-the-blank type question. This part of the exam will be closed book and closed notes; the only resources that we permit you to use are your brain and your writing utensil. When we announce that the first part of the exam is over, students will hand in the first portion and receive a second portion of the exam consisting of mostly short answer or short essay questions. You have permission to use your book, your notes, and a hand-held calculator for this second portion of the exam. You DO NOT have permission to use laptop computers, cellular phones, any sort of communication device, other people, other people's exams, other people's notes, or other people's books.

The final exam will be held on Saturday, December 15 from 4:00 pm to 6:00 pm.

Lab Assignments

We will design the lab assignments to give you hands-on experience with analyzing data. There will be 10 total lab assignments, and you will drop your two lowest lab scores for your final score. A lab assignment is due in printed format to your section leader at the beginning of lab the week after it is assigned. YOU MAY E-MAIL ONLY 1 ASSIGNMENT FOR THE ENTIRE SEMESTER! Section leaders accept early work in their mailboxes, but they DO NOT accept late work. Each lab is worth 10 points. The minimum number of points given for a reasonable effort will be three (3) points. A reasonable effort does not include putting your name at the top of a blank page and handing it in.

Quizzes

Ben will give unannounced quizzes throughout the semester for a few points. These quizzes are ungraded, but you will receive some points for simply turning in the quiz. The quiz is for you to see how you are doing in the course.

Lab Participation

The section leaders will occasionally give points for participation in lab activities. These points will also be unannounced.

September				
Monday	Tuesday	Wednesday	Thursday	Friday
3 Labor Day	4 First Day of Class! Intro.	5	6 Data with Graphics Ch. 3	7
10	11 Descriptive Statistics Ch. 4, 5	12	13 Descriptive Statistics Ch. 4, 5	14
17	18 Normal Distribution Ch. 6	19	20 Normal Distribution Ch. 6	21
24	25 Correlation Ch. 9	26	27 Correlation Ch. 9	28

October				
Monday	Tuesday	Wednesday	Thursday	Friday
1 No labs. Hand in assignments to Section leader mailboxes.	2 Measurement Review past materials	3	4 Measurement Review past materials	5
8	9 Exam 1	10	11 Probability Ch. 7	12
15	16 Probability Ch. 7	17	18 Null Hypothesis Testing, Ch. 8	19
22	23 Null Hypothesis Testing, Ch. 8	24	25 Null Hypothesis Testing, Ch. 8	26
29	30 1-Sample NHST Ch. 12	31		

November				
Monday	Tuesday	Wednesday	Thursday	Friday
			1 1-Sample NHST Ch. 12	2
5	6 2-Sample NHST Ch. 13, 14	7	8 2-Sample NHST Ch. 13, 14	9
12 No labs this week.	13 Catch-Up / Review past materials	14	15 Exam 2	16
19 No labs this week. Hand in 2-sample NHST assignment to mailboxes.	20 ANOVA Ch. 16, Ch. 17 (lite)	21	22 Turkey Day! Be thankful.	23
26	27 ANOVA Ch. 16, Ch. 17 (lite)	28	29 Regression/ ANOVA Ch. 10	30

December				
Monday	Tuesday	Wednesday	Thursday	Friday
3	4 Regression Ch. 10	5	6 Regression Ch. 10	7
10	11 Chi-square Ch. 19 Final lab due in class. Labs canceled.	12	13	14
Saturday				
15 Final Examination 4-6:00 pm				