

PSY 2801 Introduction to Psychological Measurement & Data Analysis

Lecture:

Monday and Wednesday 3:35-4:25pm

Labs:

Section 12 Thursday 3:30-4:30pm

Section 13 Thursday 5:00-6:00pm

Instructor

Jennifer Filson Moses (Jenny)

Office Hour: Weds 12:00pm - 2:00pm

Elliott Hall, N395

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Section Leader

Kyoung-Rae Jung

Office Hour: Tues/Thurs 11:00pm-12:00pm

Elliott Hall, N582

jungx068@umn.edu

You may arrange additional office hours by appointment.

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

Course website:

<https://moodle.umn.edu/course/view.php?id=6573>

or access the class through your MyU portal under the "My Courses" tab.

<http://myu.umn.edu>

Purposes of the Course:

1. To teach students some very basic statistics and measurement concepts.
2. To teach students to interpret, integrate, and connect these concepts.
3. To give students the tools to calculate basic statistics.
4. To reduce YOUR fear and hatred of statistics

Class and University Policies:

Participation: This class requires your participation. Please ask questions! Please volunteer for answers when we ask questions! If you do not, we will call on individuals – which we hate so don't make us do it.

Disabilities and Special Needs: Please notify Jenny AND University Disability Services 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 This includes both published and unpublished works. We can not tolerate plagiarism and will punish the act with a failing grade on the assignment or the course, depending on the circumstances.

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 and Events: People traveling to participate in official University of Minnesota events must notify Jenny and Kyoung-Rae at least 2 weeks prior to the event to make accommodations. Note that exams and labs are expected to be completed early in these cases. **Go Gophers!**

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

Grades

Your grade will consist of points totaling from lab assignments, three exams, participation, and extra credit points.

WE CAN NOT ACCEPT LATE LAB ASSIGNMENTS FOR ANY REASON!

We are sorry to say that we don't feel able to decide whose reasons for missing lab or assignments are "good enough" to allow late work. Instead of sitting in judgment of your life, we drop your lowest lab grade. Use your drop wisely - preferably not at all. Students who get the best grades do all nine assignments.

Point breakdown:

9 Lab Assignments	80 points
Participation	20 points
Exam 1	50 points
Exam 2	50 points
Final Exam	100 points
Total	300 points
REP extra credit	10 extra points

Grades are assigned as outlined below:

Grade	Percentage	Lowest Points Needed for Grade
A	91 - 100	273
A-	90 - 90.99	270
B+	87 - 89.99	261
B	81 - 86.99	243
B-	80 - 80.99	240
C+	77 - 79.99	231
C	71 - 76.99	213
C-	70 - 70.99	210
D+	67 - 69.99	201
D	61 - 66.99	183
D-	60 - 60.99	180
F	59.99 down	0

Exams and Assignments

Format:

All of the three exams will consist of a combination of multiple choice questions, short answer, and basic calculations. The exams will be closed book and closed notes. You may also use a *simple* calculator (no calculators that store info). You MAY NOT use laptop computers, cellular phones, any sort of communication device, or any reference materials.

Early and Makeup Exams:

Exams 1 and 2 may be taken early if you contact Jenny or Kyoung-Rae ahead of time to schedule a time to take it. Make-up exams after the first and second exam are offered for students with a personal **documented** illness or injury or that of an immediate family member (e.g. a doctor's note). Make-up exams must be taken within a week of the original exam date. Please contact us ASAP to make all arraignments.

Final Exam:

The cumulative final exam takes place on 8:00am-10:00am Friday, December 18 in the lecture classroom. You will take the final exam on this date, at this time. Due to the University's final schedule limitations, I can not schedule early or late final exams, so clear your calendars and schedule your plans accordingly.

Lab Assignments:

We will design the lab assignments to give you hands-on experience with analyzing data. There will be 9 total lab assignments, and you will drop your lowest lab score 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, unless otherwise specified. Emailed assignments are not accepted without a **documented** illness or injury (e.g. a doctor's note). Section leaders accept early work in their mailboxes, but they CAN 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 is not putting your name at the top of a blank page and handing it in.

Participation

Your active participation is essential to successful learning. As such, participation is a part of your grade. If you come to class/lab and are respectful, you'll be in good shape.

REP extra credit

You may do up to 5 hours of research participation for 10 extra credit points (each half hour is an extra credit point). These are simply added to your total. The following website will direct you the various studies occurring this semester and allow you to view your REP record: <http://www.psych.umn.edu/research/rep/index.htm>

Turn in a print-out of your REP record by **12/17/2009** to Jenny's mailbox to get credit.

September				
Monday	Tuesday	Wednesday	Thursday	Friday
7 LABOR DAY	8	9 Introduction	10 Introduction to Lab - take survey	11
14 Graphics and Basics Chapter 1-3	15	16 Descriptive Statistics Chapter 4	17 Descriptive Statistics (Lab 1)	18
21 Descriptive Statistics Chapter 5	22	23 Normal (& other) Distributions Chapter 6	24 Normal Distributions (Lab 2) Lab 1 Due	35
28 Data Transformations Chapter 6	29	30 Correlation Chapter 9	1 Correlation (Lab 3) Lab 2 Due	2

October				
Monday	Tuesday	Wednesday	Thursday	Friday
5 Correlation Chapter 9	6	7 Measurement	8 Exam Review in lab Lab 3 Due	9
12 Exam 1	13	14 Probability Chapter 7	15 Probability (Lab 4) No Lab Due!	16
19 Probability Chapter 7	20	21 Null Hypothesis Sig. Testing Chapter 8	22 Sampling Distributions (Lab 5) Lab 4 Due	23
26 Null Hypothesis Sig. Testing Chapter 8	27	28 Null Hypothesis Sig. Testing Chapter 8	29 NHST (Lab 6) Lab 5 Due	30

November				
Monday	Tuesday	Wednesday	Thursday	Friday
2 One-sample t-test Chapter 12	3	4 One-sample t-test Chapter 12	5 t-tests (Lab 7) Lab 6 Due	6
9 Two-sample t-test Chapter 13	10	11 Two-sample t-test Chapter 13	12 Exam Review in Lab Lab 7 Due	13
16 Exam 2	17	18 ANOVA Chapter 16	19 ANOVA (Lab 8)	20
23 ANOVA Chapter 16	24	25 NO CLASS!	26 Thanksgiving NO LAB!	27

December				
30 Regression Chapter 10	1	2 Regression Chapter 10	3 Regression (Lab 9) Lab 8 Due	4
7 Regression Chapter 11	8	9 Chi-Square Chapter 19	10 Exam review in Lab Lab 9 Due	11
14 Exam Review	15	16 Exam Review	17 STUDY!	18 Final Exam 8-10am