

Psychology 320 Introduction to Data Analysis

Spring 2005

LECTURES: MW 9:30 - 10:48, Lazenby 1

LAB: R 4:30 - 6:18, Lazenby 15

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- Texts:
1. Howell, D. C. (2004). *Fundamental Statistics for the Behavioral Sciences* (5th Edition). Belmont, CA: Brooks/Cole.
 2. Williams, P. (2003). *Interactive Statistics*. Sinauer Associates, Inc. URL: <http://www.introstats.net>; course number 4224308. *Note: you only need to purchase web access to this text. Used textbooks will not come with web access!*

Students with disabilities: This syllabus is available in alternative formats upon request. In addition, if you may need an accommodation based on the impact of a disability, you should contact the instructor immediately. Students with special needs should contact the **Office of Disability Services (ODS)** at 292-3307 for certification if they have not already done so. Upon such certification, the ODS and the instructor will make every effort to accommodate special needs. However, to ensure that evaluation of student performance in the course is conducted in a manner that is fair to all students, special accommodations will not be granted in the absence of ODS certification.

Academic Misconduct: All students at the Ohio State University are bound by the Code of Student Conduct (see http://studentaffairs.osu.edu/resource_csc.asp). Suspected violations of the code in this class will be dealt with according to the procedures detailed in that code. Specifically, any alleged cases of misconduct will be referred to the Committee on Academic Misconduct.

Grading policies

I will use the following fixed grading scale:

A	A-	B+	B	B-	C+	C	C-	D+	D
93%	90%	87%	83%	80%	77%	73%	70%	67%	60%

To prevent against unfair exams, I will call the grade of the second highest scorer on any exam 100%, and the cutoffs will be computed from that grade. So, for example, if I write a really hard test and the second highest score is 72%, and you earn 60%, your score on that exam will be $60/72 = 83\%$. (Note that I have never had to do this!)

There will be three exams, each worth 15% of your grade. We will have 3 short in-class quizzes, each worth 5% of your grade (for a total of 15%). Homeworks, which will be assigned on an approximately weekly basis, will be worth 40% of your grade. Because solution sets will be posted, no late homeworks will be accepted. You will have opportunities to make up missing homeworks in the form of optional work that will be assigned throughout the quarter. I repeat, homeworks are worth 40% of your grade! Don't blow them off! If you do, even if you do perfectly on all exams and quizzes, the best grade you will be able to earn is a D.

Exams will be closed-book, but you may bring one 8.5"x11" page of notes to the exam. In the event of a last-minute emergency, you MUST call me, your TA, or Angie Mercer (2-4131) BEFORE THE EXAM BEGINS. ALL MAKE-UP EXAMS WILL BE ORAL AND NO LATER THAN THREE DAYS AFTER THE MISSED EXAM. Acceptable excuses for missing an exam are a death in your family, personal illness or the illness of your child or spouse, and unforeseen accidents like your car breaking down or getting stuck in a elevator on the way to the exam. I will need documented proof of these events should they occur, so get a funeral card, a note from your physician, and/or an invoice from the towing company with the date on it.

Under certain circumstances, you may arrange to take an exam early. Discuss rescheduling an exam with the instructor well in advance of the exam.

Some important stuff

- Quizzes will begin at the start of class time on the scheduled date. Each quiz will take no longer than 10 minutes. If you are late, you will miss the quiz. I will not provide makeup quizzes to people who arrive late, except in cases of documented emergencies.
- Come to class. It makes a difference. I give out test questions in class. I work through examples that won't be available on the online notes. I answer questions. You're paying me to provide you with instruction. Don't waste your (or your parents') money by skipping class and trying to learn it all on your own.

Tentative class schedule

Exams will be in Jennings 14.

Week	Dates	Howell	Williams	Topics
<i>Descriptive Statistics</i>				
1	Mar 28 30 31	Ch 1,2(1,2) Ch 3(1-3)	Ch 1 Ch 2(1-4)	Introduction, preliminary concepts Frequency distributions, percentiles Lab
2	April 4 6* 7	Ch 3(4-6) Ch 4	Ch 2(3) Ch 3(1,2)	Graphic representations Central tendency Lab
3	11 13 14	Ch 5(1-6) Ch 9(1-4)	Ch 3(3,4) Ch 3(5),11(1-3)	Variability, dispersion Correlation Lab
4	18 20 21	Ch 9(6,7),10(1-5)	11(4) Exam 1 (Covers readings and lectures through Week 3)	Correlation and regression Examples, test review
5	25 27 28	Ch 7(1,2) Ch 7(3-5)	Ch 4(1)	Probability Probability and random variables Lab
<i>Inferential Statistics</i>				
6	May 2* 4 5	Online tutorials: random variables and binomial probabilities . Ch 6(1,2)	Ch 3(6),4(2)	Distributions The normal distribution Lab
7	9 11 12	Ch 8(2),12(1)	Ch 4(3) Exam 2 (Covers readings and lectures from Weeks 4-6)	Sampling distributions Examples, test review
8	16 18 19	Ch 6(3) Ch 8(1-5)	Ch 9(1,2, stop before 9.2.1) Ch 5(1,2)	Confidence intervals Hypothesis testing Lab
9	23* 25 26	Ch 8(6-8)	Ch 5(3-6),7	The z -test The z -test, continued Lab
10	June 30 1 2		Exam 3 (Covers readings and lectures from Weeks 7-10)	Memorial Day Examples, test review

* - Quiz day