

PSYCHOLOGY 3101-200
STATISTICS AND RESEARCH METHODS IN PSYCHOLOGY
Spring 2008

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Teaching Assistants: Michelle Broaddus (michelle.broaddus@colorado.edu)
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Classes: 9.30am - 10.45am, Tuesday and Thursday

Location: ECCR1B40

Text Book: *Statistics for the Behavioral Sciences*, 7th Edition
Fredrick J Gravetter and Larry B Wallnau, Thomson Wadsworth

Course Description: The focus of this course is to introduce the basic statistical techniques important for analyzing data arising in psychology-related research. Statistical reasoning will be emphasized through problem solving and applications.

Prerequisites: MATH 1001, 1011 or equivalent.

Course Requirements: There will be *three in-class examinations* and *ten problem sets*. The first two exams will be worth 20% of the final course grade (100 points each) while the third exam will be worth 40% of the final course grade (200 points). The exams will not be cumulative, however you will be expected to understand how previously covered material relates to the material being tested. The problem sets will also be worth 20%. The problem sets will be handed out on Tuesday and due the following Tuesday at the beginning of lecture.

Class Notes: Photocopies of the lectures will be handed out in class. Extra copies will be available upon request.

Laboratory Sessions: Lab sessions are led by the teaching assistants and will meet once per week for approximately two hours on Tuesday, Wednesday or Thursday. These sessions will be used to review the material that was covered in the lectures and to work through the problem sets. Graded problem sets will be returned during the lab sessions and computing issues will be discussed.

Computing: This course will provide an introduction to the *R* statistical package. *R* is an integrated suite of software facilities for data manipulation, calculation and graphical display. Handouts explaining the basic procedures for using *R* will be provided.

PSYC 3101-200 Spring 2008 - Revised Schedule and Reading List

Date	Topic	Chapters	Lab	Problem Set
01/15-01/17	Introduction / Descriptive Statistics	1	-	-
01/22-01/24	Descriptive Statistics	2, 3, 4	1	1
01/29-01/31	Probability	6.1	2	2 (PS1 due)
02/05	Review for Exam I	-	-	(PS2 due)
02/07	Exam I (100 points)	-	-	-
02/12-02/14	Probability Distributions I	6.2-6.5	3	3
02/19-02/21	Probability Distributions II	5	4	4 (PS3 due)
02/26-02/28	Estimation I	7	5	5 (PS4 due)
03/04-03/06	Estimation II	9.1	6	6 (PS5 due)
03/11	<i>Class Canceled</i>	-	-	-
03/13	Review for Exam II	-	-	(PS6 due)
03/18	Exam II (100 points)	-	-	-
03/20	<i>Class Canceled</i>	-	-	-
03/25-03/27	<i>SPRING BREAK</i>	-	-	-
04/01-04/03	Hypothesis Testing (Means) I	8.1-8.5, 10, 11	7	7
04/08-04/10	Hypothesis Testing (Means) II	13	8	8 (PS7 due)
04/15-04/17	Correlation and Regression	16, 17	9	9 (PS8 due)
04/22-04/24	Hypothesis Testing (Proportions) I	18	10	10 (PS9 due)
04/29	Measures of Effect (Proportions)	-	-	(PS10 due)
05/01	Review for Exam III	-	-	-
05/03*	Exam III (200 points)			

*Exam III will be on Saturday, May 3 at 7.30am in ECCR1B40 (same room as the lectures are held)

The Fine Print

Disability Statement

If you qualify for accommodations because of a disability, please submit to me a letter from Disability Services in a timely manner so that your needs may be addressed. Disability Services determines accommodations based on documented disabilities. Contact: 303-492-8671, Willard 322, and <http://www.Colorado.EDU/disabilityservices>.

Religious Observances

Campus policy regarding religious observances requires that faculty make every effort to reasonably and fairly deal with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. See full details at http://www.colorado.edu/policies/fac_relig.html.

Classroom Behavior

Students and faculty each have responsibility for maintaining an appropriate learning environment. Students who fail to adhere to such behavioral standards may be subject to discipline. Faculty have the professional responsibility to treat all students with understanding, dignity and respect, to guide classroom discussion and to set reasonable limits on the manner in which they and their students express opinions. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender, gender variance, and nationalities. Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. See policies at <http://www.colorado.edu/policies/classbehavior.html> and at http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code.

Discrimination and Harassment

The University of Colorado at Boulder policy on Discrimination and Harassment, the University of Colorado policy on Sexual Harassment and the University of Colorado policy on Amorous Relationships apply to all students, staff and faculty. Any student, staff or faculty member who believes s/he has been the subject of discrimination or harassment based upon race, color, national origin, sex, age, disability, religion, sexual orientation, or veteran status should contact the Office of Discrimination and Harassment (ODH) at 303-492-2127 or the Office of Judicial Affairs at 303-492-5550. Information about the ODH, the above referenced policies and the campus resources available to assist individuals regarding discrimination or harassment can be obtained at <http://www.colorado.edu/odh>.

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All students of the University of Colorado at Boulder are responsible for knowing and adhering to the academic integrity policy of this institution. Violations of this policy may include: cheating, plagiarism, aid of academic dishonesty, fabrication, lying, bribery, and threatening behavior. All incidents of academic misconduct shall be reported to the Honor Code Council (honor@colorado.edu; 303-725-2273). Students who are found to be in violation of the academic integrity policy will be subject to both academic sanctions from the faculty member and non-academic sanctions (including but not limited to university probation, suspension, or expulsion). Other information on the Honor Code can be found at <http://www.colorado.edu/policies/honor.html> and at <http://www.colorado.edu/academics/honorcode/>.