

EDP 660, Section 401, Fall 1999

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Office hours: Mondays and Thursdays, 1:30-2:30 p.m., and by appointment

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Class meets: Mondays, 6:45-9:15 p.m.

EDP 660, Research Design and Analysis in Education, is a course intended to give you an introduction to experimental designs and statistical procedures that frequently are used in educational psychology and other social sciences. We will use the computers to run SPSS programs to analyze data. We will discuss the appropriate uses of the designs and procedures, statistical assumptions and their violation, and the interpretation of results.

Attendance is mandatory. If you know in advance that you must miss a class meeting (for example, because of a religious holiday), please notify me in advance and arrange to make up any missed activities and arrange with a classmate to provide the notes from class. Among the university's recognized acceptable reasons for missing class are serious illness; illness/death of a family member; university-related trips; and major religious holidays.

Cheating and plagiarism will not be tolerated and will be prosecuted according to the university's regulations against academic misconduct. This extends to the homework. You are expected to do your own work. If you do not understand something, call or email me, and I will help you.

You will have several opportunities to earn points toward your final grade. Here is the breakdown of the criteria upon which your grade will be based:

- Five quizzes will be given. Each is worth 25 points. One of these quizzes will be dropped. If you must miss one quiz, then that's the quiz you will drop. Total points available from quizzes: 100.
- Several homework (four to six) assignments will be given. Total points available from homeworks: 100.
- Midterm exam: 100 points.
- Final exam: 100 points.

Final grades will be determined by the usual 90-100% = A, 80-89%=B, etc.

I often will make an adjustment to quizzes (sometimes known as a “curve”). I also will provide an incentive for continuing to work hard to improve your grade as the semester goes along: If your (curved) final exam score is HIGHER than your (curved) midterm exam score, then I will REPLACE your midterm score with your final exam score. This has been known to put as much as 10% of a class into the next-higher final grade category.

The midterm exam is tentatively scheduled for Oct. 18. Last day to drop the course is Oct. 22. The final exam will be given Dec. 13 during the regularly scheduled class time.

Book: *Statistical Methods for Psychology*, 4th ed., by David C. Howell. I’m told that the book has arrived in the bookstores. Please read Ch. 1-3 by Sept. 20. A more complete outline of assigned readings will be distributed after I have received my copy of the book.

EDP 660, Sec. 401, Fall 1999 – Reading Schedule

Date	Topics	Reading	Activities
Sept. 13	Boxplots, true experiment vs. observational research, kinds of variables	Ch. 1-3	Start H1
Sept. 20	Internal/external validity		Start H2
Sept. 27	Discuss APA article; review hypothesis testing; one-sample statistics	Ch. 4 (on your own)	H1&H2 due; Q1
Oct. 4	Two-sample statistics, one-way fixed-effects ANOVA	Ch. 7, 11; handout from Wilcox	
Oct. 11	ANOVA & MCPs; two-way and higher-order factorials	Ch. 13; handout from Toothaker & Miller	Q2
Oct. 18	Midterm exam; begin H3		Start H3
Oct. 22	***Last day to drop course***		
Oct. 25	Random-effects ANOVA; repeated measures designs	Ch. 14	H3 due; may begin H4
Nov. 1	Deciphering the terminology on split-plot designs, cross vs. nested variables, etc.		Q3
Nov. 8	Analysis of covariance	Ch. 16	
Nov. 15	Chi-square	Ch. 8	Q4
Nov. 22	Simple regression, multiple regression	Ch. 9, 15	Start H5
Nov. 29	Important topics that cross boundaries between kinds of experimental designs: Power, sample size, unequal N's, effect sizes, etc.		Q5
Dec. 6	Reviewing a journal article and designing studies		
Dec. 13	Final exam		