

section 01 MTWTh 7:30 - 8:30 am AEB 320
section 02 TTh 4:35 - 6:55 pm JFB 103

GENERAL COURSE INFORMATION

Instructor: Dr. Daigh Tufts
Office: 233 AEB
Phone: Campus 1-8332 (seldom there - do not leave voice mail, try Home)
 Home 323-9455 (don't be shy)
 E-mail daigh.tufts@fcs.utah.edu

Office Hrs: MTWTh 9:30 - 9:45 am, MW 1:45 - 2:00 pm, TTh 4:00 - 4:15 pm
 also by appointment

FCS Computer Lab: several labs across campus have SPSS

Texts: Elementary Statistics in Social Research (J Levin & JA Fox)

Computing: As an instructional tool students will make extensive use throughout the quarter of a statistical software program called SPSS. You do not need to purchase this program. Instruction will be provided to the use of this program in WINDOWS. This program is remarkably self explanatory, and we will not need a manual. It is available at various locations on campus.

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| Grading: | | |
| | Quizzes (weekly*, closed book) | 20% |
| | Homework (weekly*) | 20% |
| | Midterm exam (open book) | 20% |
| | Final exam, comprehensive (open book) | 40% |

* Weekly will likely not mean every week, but nearly every week

1. There is a University policy on withdrawing from a course. This policy is not particularly student-friendly, you have only limited ability to withdraw from a course. I refer you to the class schedule for details.
2. You may take an incomplete or withdraw from this course only if there are circumstances beyond your control that necessitates such action. The prospect of receiving a low grade is not such a circumstance.
3. A missed exam means no credit. If you are ill on the exam day make sure you contact the instructor or the main office before the exam so that other arrangements can be made.
4. There is a one-day grace period for homework turned in after its due date. Homework turned in 2 days to 5 days late is worth 50%, there is no credit after that. Late homework can be turned-in at the main FCS office, 228 AEB.
5. Your proof of grades received is returned work, keep all returned work.

The Americans with Disabilities Act requires that reasonable accommodations be provided for students with disabilities. Please contact the course instructor at the beginning of the term to discuss any such necessary accommodations.

Course Outline

This course is intended to introduce the student to the basic statistical reasoning and tools utilized by social scientists to understand and explain phenomena. The primary intent is to make undergraduate students competent consumers of statistics and their use in scientific research. Emphasis will be on commonly used descriptive statistics and statistical tests. Examples and practical applications will be drawn from the study areas that make up the Department of Family and Consumer Studies. Statistical content will begin with descriptive and summary statistics and move on to inferential statistics: confidence intervals, t-tests, ANOVA, chi-square tests, correlation, regression, and multiple regression.

Emphasis is more on developing a sense of how the science of statistics helps us understand the world than on the manipulation of formulas. To this end closed-book weekly quizzes will be used to reinforce rote learning of basic material and formulas, while open-book tests will focus on understanding the material and its use. Weekly homework will be assigned and graded. Many homework assignments will involve computer use which will facilitate a feel for data manipulation and improve the students' understanding of statistics. Emphasis in the lab will be on visualizing the data in plots and graphs as well as utilizing the computer to reduce the arithmetic burden.

COURSE SCHEDULE

| | | <u>Levin & Fox</u> |
|------------|--|------------------------|
| Week 1 | Introduction, | chaps. 1,2 |
| Week 2 | Central tendency and variation | chaps. 3,4 |
| Week 3 | The Normal Curve, Probability, | chap 5 |
| Week 4 | Populations & Samples, Confidence Intervals | chap. 6 |
| Week 5,6 | The t-test, comparing two means | chap. 7 |
| | midterm exam. about end of week 7 | |
| Week 7,8 | Analysis of Variance, comparing many means | chap. 8 |
| Week 9 | Cross tabulation of data and Chi-square test | chap. 9 |
| Week 10 | Correlation | chap. 10 |
| Week 11 | Non-parametric correlation | chap. 12 |
| Week 12-15 | Regression and multiple regression | chap. 11 |
| Week 16 | Test selection, Summary and review | chap. 13 |

FINAL EXAM : according to University schedule