FCS 3210   Statistics for Family and Consumer Studies   4 units

section 01
section 02

Instructor: Dr. Daigh Tufts
Office: 233 AEB
Phone: Campus 801-581-6521 Main FCS office
       Home 801-323-9455 (don't be shy)
E-mail daigh.tufts@utah.edu

Course Webpage: limited use of CANVAS, as I figure it out. Look in FILES

Office Hrs: and by appointment

FCS Computer Lab: 330 AEB, other SBS labs.

Text: Elementary Statistics in Social Research 11th ed. (Levin, Fox, & Forde)

Computing: During the semester students will make use 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.

Grading:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Quizzes (weekly*, closed book)</td>
<td>20%</td>
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<tr>
<td>Homework (weekly*)</td>
<td>20%</td>
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<tr>
<td>Midterm exam (open book)</td>
<td>20%</td>
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<tr>
<td>Final exam, comprehensive (open book)</td>
<td>40%</td>
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</tbody>
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93%+ A 87-89% B+ 77-79% C+ 67-69% D+ <60% E
90-92% A- 83-86% B 73-76% C 63-66% D
80-82% B- 70-72% C- 60-62% D-

Instructor may bump grade up as appropriate, I will not bump grade down.

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

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1. There is University policy on withdrawing from a course. This policy is not particularly student-friendly, you have only limited ability to withdraw from a course and it may cost you. 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. All honesty and plagiarism policies established by the University will be upheld in this class.

4. 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.

5. Your proof of grades received is returned work; keep all returned work.

6. There is a one-day (one class meeting) grace period for homework turned in after its due date. Homework turned in up to one week late is worth 50%, there is no credit after that. Late homework can be turned-in at the main FCS office, 228 AEB.
Students with Special Needs: The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability Services, 162 Union Building, 801 581-5020 (V/TDD). CDS will work with you and the instructor to make arrangements for accommodations.

Course Objectives

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

Levin, Fox & Forde

Week 1      Introduction, chap 1,2
Week 2      Central tendency and variation chap 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.
Week 7,9    Analysis of Variance, comparing many means chap 8
Week 10     Cross tabulation of data and Chi-square test chap 9
Week 11-12  Correlation, etc. chap 10,12
Week 13-15  Regression and multiple regression chap 11
Week 16     Test selection, Summary and review chap 13

FINAL EXAM  Section 01
            Section 02