San Jose State University
Department of Psychology
STAT 95, Elementary Statistics, Sec. 04 (44051)
FALL 2012

Instructor: Professor Laree A. Huntsman, Ph.D.

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Office Hours: Monday and Wednesday 12:00-1:15, 3:00-3:30

Class Days/Time: Monday and Wednesday 1:30-2:45

Classroom: BBC 202

SPSS Computer Lab: DMH 350

Prerequisites: Entry Level Mathematics (ELM) Test and Intermediate College Algebra.

GE/SJSU Studies Category: Area B4

Course Description

This course is designed to provide an overview of elementary statistical procedures used by researchers in the behavioral and social sciences and to prepare students for more advanced statistical techniques presented in other courses. Topics include organization and classification of data, graphic representation, measures of central tendency and variability, percentiles, normal curve, standard scores, correlation and regression, statistical inference and, use of microcomputers for statistical calculations.

Learning Outcomes

The proficiency goals for this General Education course are: (a) the ability to solve mathematical problems, including those presented in verbal form, (b) the ability to arrive at descriptive and inferential conclusions on the basis of mathematical data presented through such forms as statistics, tables, graphs, and computer outputs, and (c) an understanding of the ways in which mathematics affects human activities. Measured assessments of these learning objectives will include in class and homework problem sets, completing computerized assignments, written work, and specific exam items.
Required Texts/Readings

Textbook (available at campus bookstore and Roberts)


Other Equipment/Material Requirements

Calculator. Having the proper tool to do the job saves time and reduces stress. Any four function calculator that also gives you the square root of a number can get you through the course. However, having a calculator with statistical capabilities that will automatically compute the mean, standard deviation, correlation, slope, and intercept will save you time in checking your work. Since we spend an extensive amount of class time performing calculations, you are required to bring your calculator to every class.

Three T & E 200 Scantron Forms along with three sharpened Number 2 pencils.

Definition of a Credit Hour

Success in this 3-credit course is based on the expectation that students will spend 6 hours per week on activities outside of the regular class time (e.g., studying notes, completing problem sets, skill practice, textbook reading, and computer assignments).

Classroom Protocol

Come to class with a positive attitude.
Be respectful to your instructor and to your peers.
Come to class everyday.
Be punctual - late students are to enter the room discreetly and sit in the back.
Do not leave early (if you must leave early sit near the door and leave discreetly).
Unless you have an emergency there are no in and out privileges.
Unless you have a documented medical excuse there are no laptops in class.
Unless you have a documented medical excuse you are not allowed to record the lectures.
Be prepared and have necessary materials with you.
Do assigned homework and readings on time.
Do not interrupt.
Raise your hand if you wish to ask a question or make a comment.
Do not talk/joke or carry on conversations with your peers during lecture.
Cover your mouth when you yawn, burp, cough, or sneeze.
Do not read the newspaper during lecture.
Refrain from obviously looking at the clock or your watch.
Refrain from eating, drinking (water is fine) or chewing gum.
Refrain from wearing perfume, colognes, and/or scented deodorants.
Do not use laptops or any electronic devices in class (only calculators).
Turn off and put away all electronic devices in class (only calculators).
Do not make audio or video recordings in this class
Do not send or receive text messages or phone calls during class.
Do not ask, "When do we get our exam/SPSS scores?" (Return dates listed)
Do not ask, "I wasn't in class today, did I miss anything important?"
Do not ask, "May I have a copy of your notes and overheads?"
Do not say, "I was late to class today so I probably missed this but..."
Do not sleep during class.
When you come to see me after class knock quietly on my door then poke your head in.
When you talk to me after class put away all electronic devices.

**Dropping and Adding**

Students are responsible for understanding the policies, procedures, current
deadlines, and penalties about add/drop, late drop, grade forgiveness, incompletes, etc.
Refer to the current semester’s catalog policies section for specific registration
information. This semester, the last day to drop or withdraw without a "W" grade is
Tuesday, September 4, 2012.

In order to be fair to the entire class, I do not assign extra credit to raise grades.

**Assignments and Grading Policy**

**EXAMS (300 points):**

There will be 3 exams. Each exam has two parts. Part A is an open
note/book/calculator/brain exam. Part B (closed notes/book etc.) consists of true/false,
matching, and fill in the blank type questions (T & E 200 scantron forms required). Part
A and Part B will be administered over two consecutive testing sessions for Exams 1 and
2. Part A and Part B of Exam 3 will be administered during the university final
examination scheduled time period.

**MISSED EXAM:**

You must make every effort to take the exam on the scheduled day because
THERE ARE NO MAKE-UP EXAMS given in this course. If you miss an exam or elect
not to take an exam for any reason, then you will receive the score of zero for that exam.

**PROBLEM SETS:**

You will be given a homework assignment from your Huntsman Stat Workbook
for every topic covered in class. Since problem sets are not collected or graded you must
rely on your own motivation to complete them. Preparation for each class meeting is the
secret of success in this course. It is important for you to practice each skill until you feel
competent; and then move on to the next idea. Since exams are based primarily on similar problem sets, completing each assignment is essential if you want to do well in the course. The problem sets will be reviewed in class.

MISSED LECTURE:

Although attendance is not taken, perfect attendance is critical for success in this class, therefore you should never be absent and you should never be late. However, if you are absent, refer to your classmates for lecture notes. Please also be aware that I do NOT put any lecture material on the web, nor do I email them to students, nor do I give private lectures or allow students to copy my notes after class or during office hours. The only sure way for you to get lecture notes is to attend the lectures and take your own notes.

SPSS COMPUTER ASSIGNMENTS (100 points):

For simplicity, most of our classroom analyses will be performed by hand on small amounts of data. In actual practice most analyses are based on large amounts of data and it is more efficient to use a computer. The statistical program we will be using is called SPSS. You will be required to complete four SPSS assignments (4 at 25 points each = 100 points). Late assignments will have points deducted (3 points per day). Since SPSS assignments will be graded on a credit/no credit basis, students receiving "no credit" will be given the opportunity to resubmit their SPSS assignments. Instances of academic dishonesty will not be tolerated. Copied or plagiarized assignments will result in a score of zero. All SPSS assignments are to be completed by the individual student.

HOW TO EVALUATE YOUR PERFORMANCE ON AN EXAM OR SPSS ASSIGNMENTS:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>93 - 100</td>
<td>93 - 100</td>
</tr>
<tr>
<td>A-</td>
<td>90 - 92</td>
<td>90 - 92</td>
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<td>B+</td>
<td>87 - 89</td>
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<td>B</td>
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<td>D</td>
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<tr>
<td>D-</td>
<td>60 - 63</td>
<td>60 - 63</td>
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<tr>
<td>F</td>
<td>0 - 59</td>
<td>0 - 59</td>
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</tbody>
</table>

COURSE GRADE: Course grade = three exams (100 points each) and four SPSS computer assignments (25 points each = 100).

HOW WILL YOUR COURSE GRADE BE DETERMINED?

Your final grade is determined by the total of all the points you have received. Grades are NOT curved. For example, if you get a score of 88% (B+), you earn 88 points for that exam. Because grades are never curved, it is easy to keep track of how well you are doing in the course. A form for this purpose is provided below. There is NO extra credit in this course.
A  372 - 400 (93+ %)
A-  360 - 371 (90+ %)
B+  348 - 359 (87+ %)
B   336 - 347 (84+ %)
B-  320 - 335 (80+ %)
C+  308 - 319 (77+ %)
C   296 - 307 (74+ %)
C-  280 - 295 (70+ %)
D+  268 - 279 (67+ %)
D   256 - 267 (64+ %)
D-  240 - 255 (60+ %)
F-  239 (-60%)

PERSONAL GRADE RECORD:

Be sure to keep a written record of your progress in this course.

EXAM 1 _______ (100)
EXAM 2 _______ (100)
EXAM 3 _______ (100)
SPSS _______ (100)

COURSE TOTAL _______ (400)

University Policies

Academic Integrity

The exchange of any information during an exam is forbidden. Students may not share calculators nor may they use a cell phone or use a cell phone as a substitute for a calculator. Do not ever look at another student’s exam during a test. Additionally, you must not allow other students to look at your exam. Failure to adhere to these rules will result in a score of zero being recorded for any students who are in violation of this rule. According to the University’s Academic Integrity Policy you are required to be honest in all of your coursework. Furthermore, faculty are required to report all infractions to the Office of Student Conduct and Ethical Development.

Campus Policy in Compliance with the American Disabilities Act

If you need course adaptations, accommodations, or special arrangements because of a disability, please let me know as soon as possible. Presidential Directive 97-03 requires that students with disabilities requesting accommodations must register with the Disability Resource Center (http://www.drc.sjsu.edu). Additionally, if you have emergency medical information to share with me, or if you need special arrangements in case the building must be evacuated, please let me know as soon as possible.
Unless you have a documented medical excuse that you are willing to provide me, electronic devices (laptops, recording devices, cellular telephones, etc.) are NOT allowed to be operated during class. The only exception to this rule is a calculator.

STAT 95/ELEMENTARY STATISTICS, FALL 2012, COURSE SCHEDULE

WEEK 1  
Course orientation  
8/22

WEEK 2  
Introduction to statistics  
Types of data  
Tables  
Graphs  
Averages  
8/27, 8/29

WEEK 3  
*** Labor Day Holiday *** Monday, 9/3  
Variability  
Distributions  
9/3, 9/5

WEEK 4  
Standard Scores  
Correlation  
9/10, 9/12

WEEK 5  
Prediction  
9/17, 9/19

WEEK 6  
*** EXAM 1 PART A *** Monday, 9/24  
*** EXAM 1 PART B *** Wednesday, 9/26  
SPSS packet distributed, 9/26  
9/24, 9/26

WEEK 7  
Populations, samples,  
Sampling distributions  
Hypothesis testing  
Statistical significance  
Directionality  
Type I and II errors  
Power  
EXAM 1 SCORES RETURNED, Wednesday, 10/3  
10/1, 10/3
WEEK 8
  $t$-test for one sample
  $t$-test for correlation
  10/8, 10/10

WEEK 9
  $t$-tests
  One Way Chi Square
  10/15, 10/17

WEEK 10
  Two Way Chi Square
  Probabilities
  10/22, 10/24

WEEK 11
  *** EXAM 2 PART A *** Monday, 10/29
  *** EXAM 2 PART B *** Wednesday, 10/31
  10/29, 10/31

WEEK 12
  Independent $t$-test
  Dependent $t$-test
  Confidence intervals
  EXAM 2 SCORES RETURNED, Wednesday, 11/7
  11/5, 11/7

WEEK 13
  *** HOLIDAY *** Monday, 11/12
  $t$-tests
  11/12, 11/14

WEEK 14
  Analysis of Variance, 11/19
  SPSS Day, 11/21
  11/19, 11/21

WEEK 15
  SPSS Day, 11/26
  ANOVA, 11/28
  *** SPSS 1-4 DUE *** Wednesday, 11/28
  11/26, 11/28

WEEK 16
  SPSS 1-4 Returned Monday, 12/3
  Two Factor ANOVA
  12/3, 12/5

WEEK 17
  Two Factor ANOVA
  12/10

WEEK 18
  *** FINAL EXAM 3 *** Monday, 12/17, 12:15-2:30
  *** SPSS REDO DUE *** Monday, 12/17, 12:15
EXAM SCHEDULE:

*** EXAM 1 PART A *** Monday, 9/24 (50 points)
*** EXAM 1 PART B *** Wednesday, 9/26 (50 points)
*** EXAM 2 PART A *** Monday, 10/29 (50 points)
*** EXAM 2 PART B *** Wednesday, 10/31 (50 points)
*** EXAM 3 PARTS A & B *** Monday, 12/17, 12:15-2:30 (100 points)

COMPUTER ASSIGNMENTS DUE DATES:

*** SPSS 1 - 4 DUE *** Wednesday, 11/28 (100 points)
*** SPSS 1 - 4 REDO DUE *** Monday, 12/17 (100 points)

EXAM AND SPSS RETURN SCHEDULE:

*** EXAM 1 SCORES RETURNED *** Wednesday, 10/3
*** EXAM 2 SCORES RETURNED *** Wednesday, 11/7
*** SPSS SCORES RETURNED *** Monday, 12/3