San Jose State University
STAT 095, Elementary Statistics, Sec. 04, Spring 2014

Instructor: Chad Kempel, M.A.

Student Contact #1 Name:_________________ Cell/Email:_________________
Student Contact #2 Name:_________________ Cell/Email:_________________

Office Location: DMH 230 (if not in office, check DMH 348)
Telephone: 510-470-4022 (I prefer that you email me)
Email: Chad.Kempel@sjsu.edu
Office Hours: Tuesday and Thursday: 12:50-1:20 p.m.
Class Days/Time: Tuesday and Thursday: 1:30 p.m. - 2:45 p.m.
Classroom: DMH 348

Prerequisites: Satisfaction of ELM requirements; 2 years of H. S. Algebra.

GE/SJSU Studies Category: Intended for majors in education, nursing, personnel administration, psychology, social service and sociology, and psychology minors. GE: B4 (Mathematical Concepts) and CAN STAT 2

Course Description
Organization and classification of data, graphic representation, measures of central tendency and variability, percentiles, normal curve, standard scores, correlation and regression, and introduction to statistical inference; use of microcomputers for statistical calculations.

Course Goals and Learning Objectives

GE/SJSU Studies Learning Outcomes (GELO)

Upon successful completion of this program, students will be able to:

GELO 1 - To use statistical methods to solve quantitative problems, including those presented in verbal form.
- Assessed using quizzes, exams, and an SPSS assignment, among other assignments/activities (e.g., calculating mean and standard deviation for a dataset created in class and then comparing one class to another).

GELO 2 - To demonstrate the ability to use mathematics and statistics to solve real-life problems.
- Assessed using quizzes, exams, and an SPSS assignment, among other assignments/activities (e.g., calculating probabilities for real-world situations).

GELO 3 - To arrive at conclusions based on numerical and graphical data.
- Assessed using quizzes, exams, and an SPSS assignment, among other assignments/activities (e.g., SPSS assignment).
Course Learning Outcomes (CLO)

Upon successful completion of this course, students will be able to:

CLO 1 - Stat 95 requires students to write a minimum of 500 words in a manner appropriate to quantitative analysis. The writing requirement will be met via an SPSS assignment (details will be posted on Canvas). This assignment must be completed in order to receive a passing grade in this class. Writing will be assessed for grammar, clarity, conciseness, and coherence.

CLO 2 - Stat 95 will incorporate issues of diversity in many ways (e.g., in lectures, videos, assignments)

CLO 3 - In terms of Mathematical Concepts (Area B-4), Stat 95 will focus on:

a. Basic mathematical techniques for solving quantitative problems and elementary numerical computation
b. The organization, classification, and representation of quantitative data in various forms, such as tables, graphs, percentages, measures of central tendency, and spread
c. Applications of mathematics to everyday life
d. Applications of mathematical concepts in statistical inference

- Area B-4 objectives will be taught via lectures, using videos, in-class group activities and will subsequently be assessed using quizzes, exams, and an SPSS assignment, among other assignments/activities (see GELO section for examples).

Program Learning Outcomes (PLO)

Upon successful completion of the psychology major requirements…

PLO1 – Knowledge Base of Psychology – Students will be able to identify, describe, and communicate the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.

PLO2 – Research Methods in Psychology – Students will be able to design, implement, and communicate basic research methods in psychology, including research design, data analysis, and interpretations.

PLO3 – Critical Thinking Skills in Psychology – Students will be able to use critical and creative thinking, skeptical inquiry, and a scientific approach to address issues related to behavior and mental processes.

PLO4 – Application of Psychology – Students will be able to apply psychological principles to individual, interpersonal, group, and societal issues.

PLO5 – Values in Psychology – Students will value empirical evidence, tolerate ambiguity, act ethically, and recognize their role and responsibility as a member of society.

Required Texts/Readings

Textbook
- Paperback $25.99 (on Amazon.com)
- Kindle Rental $37.44 (Amazon.com)
- Rental $51.49 (130 days; CengageBrain.com)
- eBook $64.49 (6 months; CengageBrain.com)
- eChapters $7.99 /chapter (CengageBrain.com)

Other equipment / material requirements (optional)
1. Computer, printer, internet and library access
2. Scantron (882) forms and #2 pencils
3. Access to Statistical Package for the Social Sciences (SPSS) software (v. 19.0 or later). See the “Student Technology Resources” section below for details.
4. Calculator (must have square root and exponent buttons; cell phone calculators will not be allowed during exams)

Course Website
All course material will be distributed via Canvas (https://sjsu.instructure.com). You are responsible for checking Canvas daily for announcements. Online tutorials for how to use Canvas can be found online at www.sjsu.edu/at/ec/canvas/student_resources/index.html

Course Requirements and Assignments
SJSU classes are designed such that in order to be successful, it is expected that students will spend a minimum of forty-five hours for each unit of credit (normally three hours per unit per week), including preparing for class, participating in course activities, completing assignments, and so on. More details about student workload can be found in University Policy S12-3 at http://www.sjsu.edu/senate/docs/S12-3.pdf.

Grading Policy

<table>
<thead>
<tr>
<th>Item</th>
<th>How Many?</th>
<th>Total Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams</td>
<td>6-7</td>
<td>600-700</td>
</tr>
<tr>
<td>Assignments/Activities/Homework</td>
<td>10-15</td>
<td>100-150</td>
</tr>
<tr>
<td>SPSS Assignment</td>
<td>1</td>
<td>100</td>
</tr>
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</table>

Grading Distribution

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percent (%)</th>
<th>Grade</th>
<th>Percent (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>100 – 97.5</td>
<td>C</td>
<td>77.4 – 72.5</td>
</tr>
<tr>
<td>A</td>
<td>92.5 – 97.4</td>
<td>C-</td>
<td>70.0 – 72.4</td>
</tr>
<tr>
<td>A-</td>
<td>90.0 – 92.4</td>
<td>D+</td>
<td>69.9 – 67.5</td>
</tr>
<tr>
<td>B+</td>
<td>89.9 – 87.5</td>
<td>D</td>
<td>67.4 – 62.5</td>
</tr>
<tr>
<td>B</td>
<td>87.4 – 82.5</td>
<td>D-</td>
<td>60.0 – 62.4</td>
</tr>
<tr>
<td>B-</td>
<td>80.0 – 82.4</td>
<td>F</td>
<td>&lt; 60%</td>
</tr>
<tr>
<td>C+</td>
<td>79.9 – 77.5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Exams and Assignments

Exams
After every two to three chapters there will be an in-class exam (six/seven total) that tests your knowledge of the topics covered in those chapters and the material covered in the corresponding lectures. See the course schedule for specific topics and dates of these exams. Exams will consist of multiple choice, true/false, short answer/essay, and computational questions. Make sure to bring your calculator, scantron (882), and #2 pencils to the exams. There will not be any make-up exams.

What if I miss an exam for reasons beyond my control (e.g., car trouble, death in the family, etc.)?
If you need to miss an exam for any reason you will need to take an oral version of the exam during my next available office hour. During the oral exam you will receive half a point for each question you answer correctly and half a point for explaining why the answer is correct.

Challenge Exams
You can challenge one of your exam grades on the day of our final. You challenge your exam grade by retaking a similar exam on the same topics as the exam. Your grade on the challenge exam will replace your original grade (BETTER or WORSE). Missed exams cannot be challenged.

In-Class Assignments / Homework
In-class assignments (10-15 total) will be given without advanced notice. These assignments will consist of group or individual problem solving, discussions, brief presentations, or other learning assignments. In-class assignments cannot be made-up at a later date; you must be present on the day that the assignment is given.

SPSS Assignment
You are required to complete a writing assignment using SPSS. Your paper must be at least 500 words (you will likely go well beyond 500 words; e.g., there are 500 words on this page). The assignment must be completed in order to receive a passing grade in this class. Assignments must be submitted on time the day that they are due. Late SPSS assignments will be marked down 10% for each weekday they are late. The assignment must be typed and submitted through Canvas with a copy of your data and SPSS output. See the “Student Technology Resources” section below for instructions on how to get access to SPSS software. The details of this assignment will be announced through Canvas.

Classroom Protocol
Classes will be comprised of lectures, in-class activities, question-and-answer periods, and video clips. Attendance is expected and is critical for success in this course. If you miss a class, you are responsible for getting the information covered from a classmate, so make friends. It is vital that you complete all scheduled readings and assignments before each class. Do not talk, read, or text message during class. Please arrive to class on time and stay the entire time.
University Policies

Dropping and Adding

Students are responsible for understanding the policies and procedures about add/drop, grade forgiveness, etc. Refer to the current semester’s Catalog Policies section at http://info.sjsu.edu/static/catalog/policies.html. Add/drop deadlines can be found on the current academic year calendars document on the Academic Calendars webpage at http://www.sjsu.edu/provost/services/academic_calendars/. The Late Drop Policy is available at http://www.sjsu.edu/aars/policies/latedrops/policy/. Students should be aware of the current deadlines and penalties for dropping classes.

Information about the latest changes and news is available at the Advising Hub at http://www.sjsu.edu/advising/.

Consent for Recording of Class and Public Sharing of Instructor Material

University Policy S12-7, http://www.sjsu.edu/senate/docs/S12-7.pdf, requires students to obtain instructor’s permission to record the course.

- “Common courtesy and professional behavior dictate that you notify someone when you are recording him/her. You must obtain the instructor’s permission to make audio or video recordings in this class. Such permission allows the recordings to be used for your private, study purposes only. The recordings are the intellectual property of the instructor; you have not been given any rights to reproduce or distribute the material.”
  - In classes where active participation of students or guests may be on the recording, permission of those students or guests should be obtained as well.
- “Course material developed by the instructor is the intellectual property of the instructor and cannot be shared publicly without his/her approval. You may not publicly share or upload instructor generated material for this course such as exam questions, lecture notes, or homework solutions without instructor consent.”

Academic Integrity

Your commitment as a student to learning is evidenced by your enrollment at San Jose State University. The University Academic Integrity Policy at http://www.sjsu.edu/senate/docs/S04-12.pdf requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The Student Conduct and Ethical Development website is available at http://www.sjsu.edu/studentconduct/.

Instances of academic dishonesty will not be tolerated. Cheating on exams or plagiarism (presenting the work of another as your own, or the use of another person’s ideas without giving proper credit) will result in a failing grade and sanctions by the University. For this class, all assignments are to be completed by the individual student unless otherwise specified. If you would like to include your assignment or any material you have submitted, or plan to submit for another class, please note that SJSU’s Academic Integrity Policy S07-2 requires approval of instructors.
Campus Policy in Compliance with the American Disabilities Act

If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 at http://www.sjsu.edu/president/docs/directives/PD_1997-03.pdf requires that students with disabilities requesting accommodations must register with the Accessible Education Center (AEC) at http://www.sjsu.edu/aec to establish a record of your disability.

In 2013, the Disability Resource Center changed its name to be known as the Accessible Education Center, to incorporate a philosophy of accessible education for students with disabilities. The new name change reflects the broad scope of attention and support to SJSU students with disabilities and the University's continued advocacy and commitment to increasing accessibility and inclusivity on campus.

Student Technology Resources

You can purchase a copy of SPSS for $15 at the University Help Desk on the first floor of Clark Hall. Be sure to get the newest SPSS license code for the operating system you own (Mac or Windows).

A second option is to use the computers in the Statistics Lab located in DMH 350. These computers are equipped with SPSS and Graduate Student Teaching Assistants can provide you with assistance on how to use the program. They will not do your assignments for you. It is up to you to figure out when the Statistics Lab is open.

Computer labs for student use are available in the Academic Success Center at http://www.sjsu.edu/at/asc/ located on the 1st floor of Clark Hall and in the Associated Students Lab on the 2nd floor of the Student Union. Additional computer labs may be available in your department/college. Computers are also available in the Martin Luther King Library, although, they may not have SPSS installed on them.

SJSU Peer Connections

Peer Connections, a campus-wide resource for mentoring and tutoring, strives to inspire students to develop their potential as independent learners while they learn to successfully navigate through their university experience. You are encouraged to take advantage of their services which include course-content based tutoring, enhanced study and time management skills, more effective critical thinking strategies, decision making and problem-solving abilities, and campus resource referrals.

In addition to offering small group, individual, and drop-in tutoring for a number of undergraduate courses, consultation with mentors is available on a drop-in or by appointment basis. Workshops are offered on a wide variety of topics including preparing for the Writing Skills Test (WST), improving your learning and memory, alleviating procrastination, surviving your first semester at SJSU, and other related topics. A computer lab and study space are also available for student use in Room 600 of Student Services Center (SSC).
Peer Connections is located in three locations: SSC, Room 600 (10th Street Garage on the corner of 10th and San Fernando Street), at the 1st floor entrance of Clark Hall, and in the Living Learning Center (LLC) in Campus Village Housing Building B. Visit Peer Connections website at http://peerconnections.sjsu.edu for more information.

**SJSU Writing Center**

The SJSU Writing Center is located in Clark Hall, Suite 126. All Writing Specialists have gone through a rigorous hiring process, and they are well trained to assist all students at all levels within all disciplines to become better writers. In addition to one-on-one tutoring services, the Writing Center also offers workshops every semester on a variety of writing topics. To make an appointment or to refer to the numerous online resources offered through the Writing Center, visit the Writing Center website at http://www.sjsu.edu/writingcenter. For additional resources and updated information, follow the Writing Center on Twitter and become a fan of the SJSU Writing Center on Facebook. (Note: You need to have a QR Reader to scan this code.)

![QR Code](image)

**SJSU Counseling Services**

The SJSU Counseling Services is located on the corner of 7th Street and San Fernando Street, in Room 201, Administration Building. Professional psychologists, social workers, and counselors are available to provide consultations on issues of student mental health, campus climate or psychological and academic issues on an individual, couple, or group basis. To schedule an appointment or learn more information, visit Counseling Services website at http://www.sjsu.edu/counseling.
### Elementary Statistics (STAT 095, Sec. 04), Spring 2014
#### Tentative Course Schedule***

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topics, Readings, Assignments, Deadlines</th>
<th>Assign. Due</th>
</tr>
</thead>
</table>
| 1    | 1/23       | • Introduction to Stat 095  
• Survey                                                                                                         |             |
| 2    | 1/28 – 1/30| • Chapter 1 – Introduction to Statistics  
• Chapter 2 – Frequency Distributions                                                                         |             |
| 3    | 2/4 – 2/6  | • Exam 1 (Chapters 1 & 2; Tuesday, Feb. 4)  
• Chapter 3 – Central Tendency                                                                                 |             |
| 4    | 2/11 – 2/13| • Chapter 4 – Variability  
• Exam 2 (Chapters 3 & 4; Thursday, Feb. 13)                                                                   |             |
| 5    | 2/18 – 2/20| • Chapter 5 – z-Scores  
• Chapter 6 – Probability                                                                                      |             |
| 6    | 2/25 – 2/27| • Chapters 5 & 6 cont.  
• Exam 3 (Chapters 5 & 6; Thursday, Feb. 27)                                                                   |             |
| 7    | 3/4 – 3/6  | • Chapter 7 – Probability and Samples  
• Chapter 8 – Introduction to Hypothesis Testing                                                                  |             |
| 8    | 3/11 – 3/13| • Exam 4 (Chapters 7 & 8; Tuesday, Mar. 11)  
• Chapter 9 – Introduction to the $t$ Statistic                                                                  |             |
| 9    | 3/18 – 3/20| • Chapter 10 – The $t$ Test for Two Independent Samples  
• Chapter 11 – The $t$ Test for Two Related Samples                                                              |             |
| 10   | 3/25 – 3/27| --- SPRING RECESS ---                                                                                 |             |
| 11   | 4/1 – 4/3  | • Chapter 9-11 cont.  
• Exam 4 (Chapters 9, 10, & 11; Thursday, Apr. 3)                                                                |             |
| 12   | 4/8 – 4/10 | • Chapter 13 – Introduction to Analysis of Variance  
• Chapter 13 cont.                                                                                               |             |
| 13   | 4/15 – 4/17| • Chapter 13 cont.  
• Exam 5 (Chapter 13; Thursday, Apr. 17)                                                                         |             |
| 14   | 4/22 – 4/24| • Chapter 15 – Correlation and Regression                                                                |             |
| 15   | 4/29 – 5/1 | • Exam 6 (Chapter 15; Tuesday, Apr. 29)  
• Chapter 16 – The Chi-Square Statistic                                                                           |             |
| 16   | 5/6 – 5/8  | • Chapter 16 cont.                                                                                       |             |
| 17   | 5/13       | • Exam 7 (Chapter 16; Thursday, May. 13)                                                                   | Chlg. Reqs. |
| **Final Exam** | **5/19** | • Mandatory Departmental Exam  
• Challenge Exams  
 Monday, May 19 from 12:15 – 2:30 pm in DMH 348 |             |

*Schedule is subject to change with fair notice. The schedule **WILL** be altered as the semester progresses.

**Be sure to check Canvas regularly for announcements about out-of-class work and your SPSS assignment so that you can prepare accordingly.