COURSE SCHEDULE

We will be covering roughly a chapter a week. Each chapter will follow a rhythm.

Preparations

- Preview Textbook
- Watch Lecture
- Participate Exercises
- Submit Mini Guides
- Do Quizzes

Before Class ——— During Class ——— After Class

Prerequisites

"By California State University policy, passage of the Entry Level Mathematics (ELM) is prerequisite to enrollment in this class. Failure to satisfy this prerequisite will result in retroactive assignment of a "U" grade in the course. Information on the ELM is printed in the Testing Section in the front of the Schedule of Classes." Intermediate College Algebra is a prerequisite for this course.

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.

Course Goals and Student Learning Objectives

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

1. **CLO1** — Use statistical methods to solve quantitative problems, including those presented in verbal form
2. **CLO2** — Demonstrate the ability to use mathematics and statistics to solve real-life problems
3. **CLO3** — Arrive at conclusions based on numerical and graphical data.
Goal 1. Knowledge Base of Statistics: Students will demonstrate familiarity with the major concepts in statistics.

Goal 2. Application of Statistical Concepts: Students will be able to solve mathematical problems including those presented in verbal form.

Goal 3. Critical Thinking Skills: Students will develop 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.

Goal 5. Values in Psychology: Students will value empirical evidence, tolerate ambiguity, act ethically, and recognize their role and responsibility as a member of society.

Learning Objective 1 (GELO1): Use mathematical methods to solve quantitative problems, including those presented in verbal form.

Learning Objective 2 (GELO2): Demonstrate the ability to use mathematics to solve real life problems.

Learning Objective 3 (GELO3): Arrive at conclusions based on numerical and graphical data.

Learning Objective 4 (Specific to Area B4): Use basic mathematical techniques for solving quantitative problems and elementary numerical calculation.

Learning Objective 5 (Specific to Area B4): Understand organization, classification, and representation of quantitative data in various forms (e.g., tables, graphs, percentages, measures of central tendency, and spread).

Learning Objective 6 (Specific to Area B4): Apply mathematics to everyday life.

Learning Objective 7 (Specific to Area B4): Apply mathematical concepts to statistical inference.

Required Texts/Readings

Fundamental Statistics for the Social and Behavioral Sciences
by Howard T. Tokunaga


Your Book! Yes, You will need it 😊
Textbook is not an option, you will be using them for assignments and you will require the appendices for the exams.

**Required:** SPSS (Statistical Package for the Social Sciences) and Excel (or equivalent). Software is available for download through the University MySJSU, required to do homework. If you want a career in research, you want to get introduced to these programs.


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**Synchronous+**

You Are Expected To Attend…Unless You Can’t

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**Submissions On Canvas**

- Quizzes
- Mini Guides
- Exams

**On Canvas**

- Recorded Lectures -- ANNOUNCEMENT
- Lecture Slides -- FILES
- Syllabus
This is a synchronous class with supplementary asynchronous resources: you are expected to attend class unless circumstances (family, work etc.) during this pandemic prohibit this, in which case, the class is designed so you can complete the requirements on your own time. Please understand, it’s a safety net. To get the most out of the class, attend lecture and discussions.

Classroom Protocol

Even on Zoom, students are expected to display professionalism and respect for others: Arrive on time. Participate in class. Engage in civil dialogue. Pay attention to the lecture. Do not cheat.

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 calendar web page located at http://www.sjsu.edu/academic_programs/calendars/eferences/academic_calendars/. The Late Drop Policy is available at http://www.sjsu.edu/aars/policies/4atedrops/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/.

Assignments and Grading Policy

Exams x 3 ............ ..................45%
Mini Assignments x 12..........35%
Quizzes.................................20%

Mini Guides
These homework are your study guides, they are short, hence the name, and fulfill the minimum 500 words writing requirement for this class.

- Due dates are on canvas and the syllabus.

- They will be graded on a Hybrid pass/No Pass with scores of 0 – 10 – 20.
  - 20 = ALL WORK DONE (most people get this)
  - 10 = ONE exercise is INCOMPLETE. (a few get this)
  - 0 = MORE THAN ONE EXERCISE IS INCOMPLETE with obviously poor effort. (one or two usually get this)

- Typing your answers is preferred.

- Where work is done by hand use a camera phone to photograph and past the photo into the homework.

- You MUST provide the QUESTION FOLLOWED BY THE ANSWER in the sequence of the Mini Guide.

- Late homework will be penalized for tardiness, 5% a day, automatically by Canvas.

- You may work in groups but outright copying will not be tolerated. The homework is designed to assist you in understanding the material and providing much needed practical experience in grasping otherwise abstract concepts.

**Exams**

- There will be two midterms and one final in-class exam.
- The exams are not cumulative, but the concepts build over time.
• The exams will require a calculator, scantron (for in-class exams), cheat sheet of formulas, and photocopies of the tables in Appendix B.
  o Do not assume because you have a cheat sheet that you will not need to study. The cheat sheet will help with remembering formulas, but it will not help you with understand how to use the formulas.
• The exams will be a combination of multiple choice answers and problem which will require you to show your work.
  o The exercises assigned each week will be a good guide expected and what concepts need to be understood.
  o There are extra problems at the end of each chapter with answers in the book for more practice!

Course Grading Scale (% of Total Points):
A+  96-100%  B+  86-89%  C+  76-79%  D+  66-69%  F<60%
A   93-95%   B   83-85%   C   73-75%   D   63-65%
A-  90-92%   B-  80-82%   C-  70-72%   D-  60-62%

University Policies
Academic integrity
Students should know that the University’s Academic Integrity Policy is available at
http://sa.sjsu.edu/judicial_affairs/faculty_and_staff/academic_integrity/index.html. Your
own commitment to learning, as evidenced by your enrollment at San Jose State
University and the University’s integrity policy, require 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
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 in your assignment any material you have
submitted, or plan to submit for another class, please note that SJSU’s Academic Policy
F06-1 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 requires that students with disabilities requesting accommodations must register with the Disability Resource Center (DRC) at http://www.drc.sjsu.edu/ to establish a record of their disability.

Learning Assistance Resource Center (Optional)
The Learning Assistance Resource Center (LARC) is located in Room 600 in the Student Services Center. It is designed to assist students in the development of their full academic potential and to motivate them to become self-directed learners. The center provides support services, such as skills assessment, individual or group tutorials, subject advising, learning assistance, summer academic preparation and basic skills development. The LARC website is located at http://www.sjsu.edu/larc/.
# 21708, Elementary Statistics, Section 01, SPRING 2021

<table>
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<th>Date</th>
<th>Topics, Readings, Assignments, Deadlines</th>
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<td>Jan 27</td>
<td>Welcome &amp; Logistics Introduction: Ch 1 Types of Stats, Types of Data, Types of Variables</td>
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<td>2</td>
<td>Feb 1-3</td>
<td>Tables &amp; Figures, Frequency Distributions &amp; Graphs Ch 2 DUE: Mini #1</td>
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<td>Feb 8-10</td>
<td>Central Tendency Ch 3 DUE: Mini #2 DUE: Mini #3</td>
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<td>Feb 15-17</td>
<td>Variability Ch 4 DUE: Mini #4</td>
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<td>5</td>
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<td>Normal Distributions Ch 5 DUE: Mini #5 EXAM 1</td>
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<td>6</td>
<td>March 1-3</td>
<td>Hypothesis Testing &amp; Probability Ch 6 Mini #6</td>
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<td>7</td>
<td>March 8-10</td>
<td>Hypothesis Testing z-stats &amp; t-Stat Ch 7 Mini #7a Mini #7b</td>
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<td>March 15-17</td>
<td>Confidence Interval Ch 8 Mini #8</td>
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<td>March 22-24</td>
<td>Independent t-Test &amp; Dependent t-test Chapter 9</td>
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<td>March 29-31</td>
<td>SPRING BREAK</td>
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<td>Independent t-Test &amp; Dependent t-test CONT´D Chapter 9 Mini #9</td>
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<td>Effect Sizes, Power, Signal Detection Theory Ch 10 Mini #10 EXAM 2</td>
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<td>ANOVA One-Way Ch 11 Mini #11</td>
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<td>Correlation</td>
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<td>Chapter 14</td>
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<td>17</td>
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<td>REVIEW</td>
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