STAT C1000— ELEMENTARY STATISTICS —FALL SEMESTER 2025
Section 1103, Lindley 203, 1:30pm-3:30pm TTh, 4 Units

Instructor: **Mark Ferguson**. Office: Kunde Hall, Room 211. Email: ***mferguson@santarosa.edu***

- Office Hours: 8:15 pm—9:15 pm MW in Lindley 204, 7:50 pm—8:50 pm Tuesday in Lindley 261
- Canvas is not used in our class.
- Email will be checked on normal class days.
- Unauthorized use of smart device/computer during class → points deduction.

Course Description

Elementary Statistics: This course is an introduction to statistical thinking and processes, including methods and concepts for discovery and decision-making using data. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-squared, and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Students apply methods and processes to applications using data from a broad range of disciplines.

Course Outline of Record

This is available online and contains the student learning outcomes: go to the SRJC homepage and search for STAT C1000 under the course outlines link.

Assignment Structure

Activity	Points Possible	Your Points	Your Cumulative Points	Cumulative Points Possible	Your Cumulative Percentage
Exam #1, Thursday of Week 6	100			100	
Exam #2, Thursday of Week 12	100			200	
Exam #3 Thursday of Week 16	100			300	
Problem Solving	150			450	
Final Exam Thursday, December 18, 2025 1:00 PM - 3:45 PM	200			650	

Grading Policy

Graded exams may be discussed at least 48 hours after they have been returned to you. Letter grades will be assigned on a scale no stricter than the following:

Letter Grade	Percentage
A	**90 to 100**
B	**80 to 89**
C	**70 to 79**
D	**60 to 69**
F	**0 to 59**

Exams (3 at 100 points each) can only take early

These will be taken in our classroom. You will be notified of the exam topics and the materials you can use on the exams about one week prior to each exam. These exams may only be taken at a different time with advanced notice and must be taken prior to the original scheduled date. Exams are usually graded and returned no later than one week of the exam date. Students are asked to review their graded exams and wait at least 48 hours to discuss questions and ask for further feedback on graded exams.

Note 1: You may replace your lowest exam score with the final exam percentage, as long as your scores on original exams 1, 2, and 3 were all at least 50% and were all taken during original exam time.

Note 2: in case of an emergency immediately before (only) one of these exams that causes you to miss an exam, it is possible to use a portion of your Final Exam score to count as your score for the missed exam (only the topics on the Final Exam, as determined by me, that are associated with the exam that you missed), provided that:

- Sans the exam you miss, you have a passing grade going into the Final Exam.
- You have regular attendance and have been providing a good faith effort in our class, as determined by me.

Please note that the distribution of points according to topics may be different on your Final Exam as opposed to the typical Final Exam (below).

Final Exam (200 points)

Be prepared for a mostly cumulative final exam. It will be written to take about 2.5 hours and will be given at the College-designated time. You will be notified of the exam topics and the materials you can use on the final prior to the final. The final exam can only be taken at a different time with advanced notice and must be taken prior to the original scheduled date. Final exams are not returned to the students; however, you are welcome to come by during the following semester to review your final exam.

Note: in case of an emergency immediately before the Final Exam, it is possible to take an Incomplete Grade for the class, provided that you have a passing grade going into the Final Exam, and take the Final Exam during a subsequent semester.

Reading and Lecture Schedule (Note that the schedule is ideal. Our actual pace may cause us to run a little behind or ahead of the ideal schedule throughout the semester)

Week Number	Date (Week Beginning Monday…)	Section Number and Title from Our Text. Read these sections before they are covered; homework will be issued in class.
1	August 18	*Reading only: Chapter 1* 2.1: Organizing Qualitative Data 2.2: Organizing Quantitative Data
2	August 25	2.3: Additional Displays of Quantitative Data 3.1: Measures of Central Tendency
3	September 1	3.2: Measures of Dispersion 3.3: Measures of Central Tendency and Dispersion from Grouped Data *Monday No Classes—Labor Day Holiday*
4	September 8	3.4: Measures of Positions and Outliers 3.5: The Five-Number Summary and Boxplots
5	September 15	4.1: Scatter Diagrams and Correlations 4.2: Least-Squares Regression
6	September 22	Review **Exam 1 Thursday**
7	September 29	5.1: Probability Rules 5.2: The Addition Rule and Complements
8	October 6	5.3: Independence and the Multiplication Rule 5.4: Conditional Probability and the General Multiplication Rule
9	October 13	5.5: Counting Techniques *5.7 is a great section to study for more practice
10	October 20	6.1: Discrete Random Variables 6.2: The Binomial Probability Dist.
11	October 27	7.2: Applications of the Normal Dist. 7.1: Properties of the Normal Dist.
12	November 3	8.1: Dist. Of the Sample Mean 8.2: Dist. Of the Sample Proportion **Exam 2 Thursday**
13	November 10	9.1: Estimating a Population Proportion 9.2: Estimating a Population Mean *Tuesday No Classes—Vet's Day Holiday*
14	November 17	10.1: The Language of Hypothesis Testing 10.2: Hyp. Tests for a Pop. Proportion 10.3: Hyp. Tests for a Pop. Mean
15	November 24	11.1: Inference about Two Pop. Proportions 11.2: Inference about Two Means: Dependent Samples *Thurs. No Classes--Thanksgiving*
16	December 1	11.3: Inference about Two Means: Independent Samples 12.1: Goodness-of-Fit Test **Exam 3 Thursday**
17	December 8	12.2: Tests for Independence and the Homogeneity of Proportions 13.1: Comparing Three or More Means Review
Finals	December 15	Final Exam Thursday, December 18, 2025 1:00 PM - 3:45 PM