

Course Syllabus



Math 15, Elementary Statistics

Section 2049, Fall 2020

Course Description

Exploration of concepts in statistics, descriptive statistics, probability theory, Central Limit Theorem, estimation of population parameters from a sample, hypothesis testing, correlation and linear regression, introduction to analysis of variance, and computer simulations.

Prerequisites: Completion of MATH 161 OR MATH 156 OR MATH 154 OR MATH 155 or appropriate placement based on AB705 mandates.

Course Outline and Student Learning Outcomes

A course outline and student learning outcomes (SLOs) for Math 15 can be found at the following URL:

https://portal.santarosa.edu/srweb/SR_CourseOutlines.aspx?CVID=48790&Semester=20195
(https://portal.santarosa.edu/srweb/SR_CourseOutlines.aspx?CVID=48790&Semester=20195)

Course Modality and General Expectations

This course is administered entirely online through Canvas and Zoom Meetings. A combination of synchronous and asynchronous instruction methods will be used. You are expected to participate in Zoom Meetings during the first half of each regularly scheduled class time. After the first 50 minutes of class you are allowed to leave the Zoom Meeting. This is a four unit class, which traditionally means four hours in class and eight hours of work out of class each week. You should budget about 12 hours per week in order to participate in course activities, and complete your assigned work.

Instructor Contact

- **Instructor:** Chad Griffith
- **Office Hours by email:** MW 9:00 – 9:50 AM and MW 12:00 – 12:30 PM (or by appointment)
- **Email:** cgriffith@santarosa.edu (<mailto:cgriffith@santarosa.edu>)
- **Class Location:** Online through Canvas and Zoom Meetings
- **Class Times:** MW 7:00 – 8:50 AM

Required Materials

Textbook:

- Lock Statistics: Unlocking the Power of Data Second Edition by Lock w/ WileyPLUS (Online text accessed through Canvas).
 - The textbook can be purchased through the campus bookstore or through Canvas by clicking on a WileyPLUS content link.
 - Your subscription to WileyPLUS includes an e-Textbook, online homework service, instructional videos, as well as many other resources.

Required Technology:

- A computer with an internet connection is required:
 - You need to participate in Zoom room class sessions during regularly scheduled class time.
 - You need to access the Canvas course shell regularly.
 - You will need to use **StatKey**. [_\(http://www.lock5stat.com/StatKey/index.html\)_](http://www.lock5stat.com/StatKey/index.html) An online statistical software package that works through your internet browser.
 - You need to be able to work with the WileyPLUS online environment which will be accessed through the Canvas course shell.
- A graphing calculator or graphing calculator App is required. There are a few options. Either of the following is fine:
 - The TI-84 graphing calculator works well. The TI-83 is another option, but it requires a little more work as it does not have all of the features of a TI-84.
 - **ClassCalc** [_\(https://classcalc.com/\)_](https://classcalc.com/) is free online graphing calculator software that can be used through an internet browser or the app can be installed on your phone. If you don't already own a TI-83 or TI-84 this is a great option.
- Scanner app required. You should use a scanner or scanner app to scan and upload documents to Canvas. **CamScanner** [_\(https://www.camscanner.com/\)_](https://www.camscanner.com/) is a good choice as it combines your pages into one document and helps organize your work. Several other scanner apps are acceptable.

Exams

Three midterm exams and a final exam will be given. The final exam is cumulative. You must take the final exam to pass the course. At the end of the semester I will replace a student's lowest midterm exam score with the final exam percentage, if it helps. Midterm exams will be administered online during regularly scheduled class time. Missed midterm exams cannot be made up. Here is the exam schedule:

- Midterm 1: Tentatively Scheduled for Wednesday September 23
- Midterm 2: Tentatively Scheduled for Wednesday October 28
- Midterm 3: Tentatively Scheduled for Wednesday December 2
- Final Exam: The final exam is Monday December 14th at 7:00 AM to 9:45 AM

Homework and Quizzes

Homework will be assigned for each daily scheduled class section. All homework and quizzes will be submitted electronically. In some cases you will need to hand write material, scan it and upload the file. In general, late homework is not accepted. In rare circumstances, such as an emergency, an extension of the due date may be provide. Points earned from homework and quizzes are combined to form a score equivalent to 20% of the semester grade.

Getting Help

Free tutoring services are available at the [SRJC Tutorial Center](https://college-skills.santarosa.edu/srjc-tutorial-centers) [.\(https://college-skills.santarosa.edu/srjc-tutorial-centers\)](https://college-skills.santarosa.edu/srjc-tutorial-centers) and the [Math Tutoring Lab](https://mathematics.santarosa.edu/online-math-lab-tutoring) [.\(https://mathematics.santarosa.edu/online-math-lab-tutoring\)](https://mathematics.santarosa.edu/online-math-lab-tutoring). I am available during office hours which will occur through Zoom Meetings, so drop into my Zoom office hours if you have math questions or need help with other problems related to this course.

Grading Policy

Student semester grades are based on performance in each of the categories shown in the table below. A score of up to 100 points is possible for each category. At the end of the semester a final score is determined by weighting the category scores with the percentages given below.

<u>Category.</u>	<u>Percentage of Semester Grade</u>
Midterm 1	20%
Midterm 2	20%
Midterm 3	20%
Homework/Quiz	20%

Final Exam

20%

The final semester score is then converted to a letter grade for the semester using this scale.

A: 90 or better

B: 80 – 89

C: 70 – 79

D: 60 – 69

F: less than 60

Credit/Non-credit students need a minimum C grade (70) for credit.

For example, suppose a student has the following scores: 1st midterm 79, 2nd midterm 71, 3rd midterm 86, homework/quiz 90, and final exam 85.

Midterm 1 $79 \times .20 = 15.8$

Midterm 2 $71 \times .20 = 14.2$

Midterm 3 $86 \times .20 = 17.2$

Homework/Quiz $90 \times .20 = 18$

Final Exam $85 \times .20 = 17$

Final Score total = 82.2

With 82.2, the student earns a B grade.

Attendance Policy and Drops:

Sonoma County Junior College District attendance policy is as follows. *Students are expected to attend all sessions of the course in which they are enrolled. Any student may be dropped from any class when that student's absences exceed ten percent (10%) of the total hours of class time.*

If you decide to discontinue this course, it is your responsibility to officially drop it. Do not assume the instructor will drop you automatically.

Standards of Conduct

Students who register in SRJC classes are required to abide by the SRJC Student Conduct Standards. Violation of the Standards is basis for referral to the Vice President of Student Services or dismissal from class or from the College. See the [Student Code of Conduct](https://student-conduct.santarosa.edu/) [\(https://student-conduct.santarosa.edu/\)](https://student-conduct.santarosa.edu/)

Tentative Course Schedule

Course Schedule

WEEK	TOPIC
Week 1	Introduction to Class Section 1.1 & 1.2
Week 2	Section 1.3 & 2.1
Week 3	Section 2.2 & 2.3
Week 4	Labor Day & Section 2.4
Week 5	Section 2.5 & 2.6
Week 6	Midterm Exam 1 Section 3.1
Week 7	Section 3.2, 3.3, & 3.4
Week 8	Section 4.1 & 4.2
Week 9	Section 4.3, 4.4, & 4.5
Week 10	Section 5.1 & 5.2
Week 11	Review & Midterm 2
Week 12	Section 6.1 & 6.2
Week 13	Section 6.3, 6.4, 6.5 & Veterans

	Day
Week 14	Section 7.1 & 7.2
Week 15	Section 8.1 & Section P.1
Week 16	Midterm 3 Section P.2
Week 17	Section P3 & P.4 and Review
Finals Week	Final Exam