

Math 15, Section 1652

Elementary Statistics

Fall 2018

Contact Information:

Instructor: Tracey Jackson

Office Hours: Wednesday 5:00-6:30 pm, or by appointment

Office Location: Shuhaw 1721B

e-mail: tkkjackson@yahoo.com

Class Information: Monday and Wednesday 3:00-5:00 pm in Shuhaw 1737

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.

Text: Required: Collaborative Statistics, a free open resource textbook available for download here:

<https://cnx.org/contents/XgdE-Z55@40.9:LnCgyaMt@17/Preface>

You can purchase a hard copy of the textbook from the bookstore (or online) if needed.

Course Online Content: Students will use the Canvas course web site for the homework, supplemental assignment instructions, and submitting those assignments.

Calculator: You will need a TI calculator that does statistics (TI 83 Plus, 84). You will be using this calculator to assist you on your homework, quizzes and exams. You may not use a calculator that does symbolic logic on quizzes and exams (TI - 89). If you do not have a TI - 83 Plus or TI - 84, your calculator will need to be approved by me. You may not use cell phones or similar devices as a calculator in class.

Student Learning Outcomes for Math 15:

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

1. Use numerical and graphical methods to summarize, display, and interpret data sets.
2. Estimate population parameters from sample statistics.
3. Perform one and two sample hypothesis tests for population means and proportions.

More information about the course, including course objectives, is available on the course outline:

https://portal.santarosa.edu/SRweb/SR_CourseOutlines.aspx?CVID=37479&Semester=20177

Grade Breakdown:	Homework:	15 %
	Labs:	10 %
	Quizzes:	15 %
	Participation:	5 %
	Exams:	30 %
	Final:	25 %

Assignments: In preparation for each class meeting, you are **expected** to have:

1. Studied the sections of the text that are going to be covered in class.
2. Completed homework problems.
3. Reviewed for projected exams.

In order to plan your schedule, please note the following: for successful completion of this course plan to spend 2-3 hours outside of class for each hour spent in the classroom.

Grade Information: After each exam has been graded, you will receive a printout so you will know your current grade information for the class. It is your responsibility to check this information to see that I have recorded your scores correctly on each printout. Any scores that I drop will only be dropped at the end of the semester, so they will be included in your grade printouts until then.

Homework: The homework is assigned, and submitted online in Canvas, for free! I am using a new system with you for use statewide. The only catch is that you need to report errors and problems to me. There will be NO extensions granted for any reason and I expect you to work on your assignments early and consistently, therefore, there will be no last minute disasters! The first assignment will be due Wednesday 8/29 at 11:59 PM. After that, assignments will be due on Wednesdays at 11:59 PM unless stated otherwise in class. Wednesday due dates are a buffer only. **You are expected to have the assignments mostly completed by class on Mondays.** This is to prepare you for quizzes and give you an opportunity to ask questions in class on Mondays. *Note:* The HW is for your benefit. If a problem is not clear, or you do not understand a concept, ask questions as soon as possible to prevent further confusion. Also, if you feel you need more practice, try more problems than have been assigned.

Quizzes: There are frequent quizzes, usually one per week. These generally consist of 1-3 problems similar to those discussed in class, practiced on your homework or covered in your reading. Quizzes are not usually announced ahead of time. There may be some quizzes where no calculator is allowed. There are no individual make-up quizzes. I drop the lowest quiz score at the end of the semester.

Computer Labs: The use of computers to analyze and interpret data is an essential part of learning statistics. To this end, we will be focusing on using the Excel software package. The labs are designed to help you learn how to use Excel and how it can be used as a valuable tool in the course, and in statistics in general, for solving problems. On all work that you turn in, complete sentences and correct grammar must be used. Your submissions must also be typewritten (that includes the calculations). It is also important to note that no prior computer experience is necessary. Computers with Excel are available in the computer labs on campus. Computer labs turned in late, after 3:00 PM on the due date, will be marked down 10% each day they are late. Computer Labs will be submitted in Quiz form electronically, on Canvas, some files will be submitted as well in either a Word or PDF format. Google Docs, while adequate for much of what we will be doing, is missing several key features like formula writing flexibility and spreadsheet data analysis so using it alone will not be possible. You may also work in groups of two to four students on the labs 1 through 4. Lab 0 will be done individually and is worth 10 points, the remaining four labs are 25 points each.

Participation/Attendance: If you decide to discontinue this course, it is your responsibility to officially drop it. A student may be dropped from any class when that student's absences exceed ten percent (10%) of the total hours of class time. It is strongly advised that if you need to miss more than one class/homework deadline in a row that you contact the instructor to avoid being dropped from the class. For face-to-face courses, students who fail to attend the first class meeting may be dropped by the instructor. Instructors are required to drop all No-Show students immediately following the second class meeting. A No-Show is an enrolled student who has not attended any class meeting of the course or not completed any of the assignments in the first two weeks.

Instructor Announcements: The instructor will post announcements on the Announcements page in Canvas throughout the semester. Canvas notifies students according to their preferred Notification Preferences. (You don't want to miss any important communications from your instructor!) On mobile devices, Canvas is designed to be used within Canvas mobile applications. Be aware that not all features are fully supported in the app. (It's recommended you do "sophisticated" tasks like taking quizzes and submitting assignments using a regular web browser.)

Classwork: There are problems and work assigned in class, which will be turned in and/or presented for points. These are generally graded for effort, but will occasionally be checked for correct results as well. There are no individual make-up classworks. I drop the lowest classwork score at the end of the semester.

Behavior: All students must adhere to the Student Code of Conduct as outlined in the Schedule of Classes and available at <https://studentlife.santarosa.edu/rights-and-responsibilities> . Respect and politeness are expected at all times.

Note: Turn off or silence all pagers and cell phones before entering the classroom (unless you have spoken to me individually about some compelling reason). They should be out of sight until class is over.

Exams: There are three exams. The tentative exam dates are: 9/19, 10/24, and 12/5. There will be no make-up exams. However, the lowest exam score will be dropped at the end of the semester. If for some reason you will be missing more than one exam for compelling reasons, speak with me individually during office hours.

Exam calculator information: On the exams you may use a basic, scientific, or graphing calculator. You may not use cell phones or similar devices as a calculator in class.

Exam materials: For each exam, you are expected to come to class with a pencil, a few pieces of loose, blank scratch paper, and your calculator. You do not need blue books or scantron forms.

Final: There is a comprehensive final on Monday December 17th from 1:00-3:45 pm. The final exam is cumulative and must be taken. This date and time is **non-negotiable**.

Extra Help: If you want or need extra help please get it as soon as possible. If office hours don't work for you, make an appointment for a time that does. You are encouraged to work in groups on HW and most classwork (but not to copy!). If copying is even remotely suspected, you may be given additional problems to determine who has done the work and understands the material. There are also many resources available on campus.

Tutoring

- **FREE Tutoring:** The Computer and Mathematics Lab in 1733. Santa Rosa Campus's Tutorial Center (first floor of library) and Petaluma Campus's Tutorial Center located in Kathleen Doyle Hall, 2nd Floor, Rm 247. For any student who has declared a Calculus based science major, you can join MESA, located in Bertolini, room 4832. <http://mesa.santarosa.edu/> They have tutoring services and so much more!
- **Study Groups:** Not only can you help one another by working together, but it can be a lot of fun to discuss mathematics. Since I do not grade on a curve, there is no reason to compete with one another. Let me know if you need assistance setting up a study group, I would be happy to help.
- **Private Tutors:** The Math Department has a list of private tutors. This list can be found on the Math Department web site at <http://mathematics.santarosa.edu/tutorial-resources>

Accommodations for Students with special needs: If you are a student with special needs and you think you may require accommodation please contact Disability Resources. This program offers supportive services for students with physical, communication, learning disabilities, psychological disabilities or other medical problems. The purpose of this program is to enable persons with a disability to integrate successfully into the college program. Some of the supportive services are: specialized counseling, priority registration, tutoring, readers, note takers, specialized equipment, faculty and community liaison. More information is available at <https://drd.santarosa.edu/drd-home>. If you have already contacted Disability Resources, please provide your notice of accommodations.

The academic calendar lists important dates and is available at:
http://www.santarosa.edu/schedules/academic_calendar/

College policies, including those on academic integrity and student conduct are available at:
http://www.santarosa.edu/for_students/rules-regulations/

Classroom Etiquette and Expectations

- I expect you to come to class with the tools you need: class workbook, pencil, eraser, calculator, and paper.
 - Students are to act respectfully and pay attention while in class. The best way to learn is through participation, listening actively, and by being polite even when we disagree with another student's viewpoint.
 - Cell phones, iPods, etc. are to be turned off. Please note that a cell phone/smart phone is NOT a calculator, you will not be able to use them at any time in class. During Exams, if your cell phone goes off, you are disrupting your classmates' concentration and I will take away your exam and ask you to leave. You will not be allowed to finish your exam later.
 - Students are expected to arrive on time, stay the entire class period, and not put course materials away before I have concluded the lecture.
 - Sharpen your pencils and use the restroom before class starts. Do not eat or drink distracting foods (such as crunchy chips) or put your head down on the desk and sleep during class.
 - Since other students may find side conversations distracting, direct your questions to me, not to your neighbor.
 - If you use a laptop or tablet computer for note taking, please sit in the front row with the sound off. You cannot do your homework, chat online, Facebook, Tweet, etc. during class.
 - We will conduct ourselves in a manner that reflects our awareness of common standards of decency and the rights of others. All students are expected to know the Student Conduct Code, and adhere to it in this class. Students who violate the code more than once will be asked to leave the classroom and must schedule a meeting with me to explain to me why you should be allowed to return to class. Repeated offenses and we will refer to the Vice President of Student Services for discipline.
- If you have any questions, please feel free to discuss them in class or during my office hours. I'll be glad to provide any help you need.

Contact information for other students in the class:

Name	e-mail address	phone number
1. _____	_____	_____
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____

Except under unusual circumstances, the guidelines in the above syllabus will not change. However, if any changes are necessary, all changes will be communicated in writing as an addendum to the syllabus.