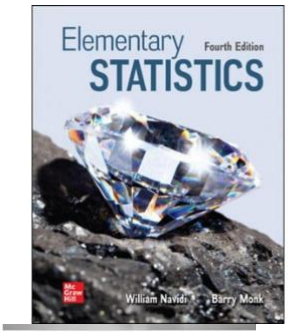
Mt. San Antonio College
Mathematics and Computer Science
Elementary Statistics Math 110H CRN# 32447
Winter 2022



Instructor: Erik Pachas
Email: epachas@mtsac.edu
Office Hours: To be arranged or by appointment
Time and Location: Tues-Thu 10:30 a.m. – 1:20 p.m. Building 61-Room 2311

Text: Elementary Statistics, 4th edition, by Navidi and Monk.

Prerequisites: MATH 71 or MATH 71X or MATH 71B or qualifying score on current department placement test.

Course Description: Emphasis is placed on the understanding of statistical methods. Descriptive analysis of sample statistics, distribution of discrete and continuous random variables, estimation theory, tests of hypotheses, regression, correlation and analysis of variance.

OBJECTIVES (Student Learning Outcomes) Upon completion of the course, students should be able to:

1. Students will be able to determine descriptive statistics from a sample.
2. Students will be able to use sample statistics to develop a confidence interval for population parameters.
3. Using sample statistics from one or more samples, students will be able to test a claim made about a population parameter.
4. Using bivariate data, students will be able to determine whether a significant linear correlation exists between two variables and determine the equation of the regression line.

SUPPLIES

- Pen or pencil and eraser
- Three ring binders. This will be to keep you handouts and worksheets organize
- **A TI-84 calculator is required. Other calculators will be accepted, but you are responsible to learn how to use them.**
- Notebook or paper

Here are other alternatives for online calculators:

An emulator for the TI 83/84 Graphing Calculator is available to download on your phone:

Android:
TI-84 Plus simulator - FREE
Wabbitemu in the Play Store
Directions for how to download: https://www.youtube.com/watch?v=QdNqgXJEnHU

iPhone:
TI-83 simulator - $5.99
GrafNCalc83 in the App Store

You can only use these alternatives to do your homework and practice for the exams. For the quizzes and exams, you must use a physical calculator.

Ways to Succeed in Math:

1. Ask questions and be active in class.
3. Form a study group with fellow students.
4. Do the homework on a daily basis.
5. Study ahead of time for quizzes and exams.
6. Leave any bad past experiences at the door.

CLASS CONDUCT

- Be considerate by not talking during lecture. It is very disturbing when students talk during lecture. It gives the message that you don't care about lecture and that you have no respect for your classmates and the instructor.
- Make sure you turn off your cell phones (or leave it in silent mode), iPods, or any kind of electronic devices during lecture are not allowed; unless, you have permission of the instructor.
- Leaving class early or not participating in class activities will be considered an absence in addition to a zero in that activity or Quiz.

CHEATING: Cheating will not be tolerated under any circumstance. It will result in a 0 in the exam, quiz or assignment, and the corresponding disciplinary action. **Cheating is a violation of the Code of Student Conduct and will not be tolerated in this class. Cheating includes letting someone copy your work.**

Attendance: Attending every class period is very important. Missing classes can severely affect your grade. Attendance will be taken daily so please plan to arrive on time and stay until the end of the class to avoid being marked absent. If you are absent (late or leaving early) the first week of class, you will be dropped from the class. Also, **you may be dropped from the class if you are absent 3 or more class periods after the first week.** If you decide to drop the class, it is your responsibility to make the drop official

ONLINE HOMEWORK ASSIGNMENTS: Homework will be assigned from a website called ALEKS. To access this website, you must purchase an access code. Also, you must access it through Canvas every time you do an assignment. Directions for the homework will be posted in Canvas. There will be no extension for the homework, so make sure to do it by the deadline. You are encouraged to write the homework solutions on paper so that you can prove your work if there is any discrepancy with your answers and the website.

"Study-time to class-time ratio." In order to be successful in the course, you need to spend at least two hours per day outside of class. This study-time does not include the time you spend doing homework.

Quizzes: There will be at least one in-class quiz each week, except on the week when we have an exam. There will be NO make-up quizzes given.

Exams: There will be 3 exams during the term. Make-up exams will be given for only serious and compelling reasons and I must be notified **prior** to the scheduled exam time.
You **must show all work** to test questions. An answer without any work shown will receive no credit.

Final Exam: The final exam will be cumulative. If the score on your final is higher than your lowest test, your final exam percentage will replace your lowest test score given that you have taken all the exams. If you are missing an exam because you were absent or dismissed from class, you will not have this option.

GRADING : Letter grades will be assigned based on the number of points you have accumulated during the semester.

Homework	100	A (900-1000 points)
Exam I, II , III	360 (120 points each)	B (800-899 points)
Quizzes	40 (20 points each)	C (700-799 points)
Class Activities	50 (5 points each)	D (600-699 points)
Project	150	F (500-599 points)
Final	+300	
Total Points	700	

PARTICIPATION

- The way I like to run my lecture is by asking a lot of questions all of the time. I have two main reasons for this. The first one is to check if I'm presenting the ideas effectively and to check if you understand the ideas and definitions. The second is to keep you engaged in the lecture by actively participating and bringing different perspectives from the ones given during the class. Thus, be ready to an active and independent learner!

- I do not expect the right answer when I ask a question, but I would like you just to try it. Take a shot (this will count as participation). That's what learning is all about. Learning mathematics involves making mistakes.

- Even if you think the question is too basic or obvious, you should ask questions (**I will be willing to answer it**). **In other words, feel comfortable and do not hesitate to ask me questions during class**. This will also count as your participation**.**

Unlike previous classes, this will not be a class where we just use formulas and solve problems mechanically. The goal is to know what we are doing (knowing the properties) and why we are doing it (justifying our steps)

Important Dates:

January 04	Last Date to Add
January 04	Last Date to Drop with Refund
January 09	Last Date to drop without W
January 16	Martin Luther King Day - Campus Closed
January 25	Last Date to drop with W
February 09	**Final Exam 10:30 a.m.-1:00 p.m.**

Tutoring centers:

You are strongly encouraged to use the tutoring facilities. Listed below are some of the math-centered tutoring centers on campus. More information about campus tutoring centers can be found at http://mtsac.edu/computerlabs/

• MARC/TMARC (building 61, first floor)

• ASAC (building 6, first floor, south entrance)

• Math Success Lab (building 16D)

Tentative Course Outline

WEEK	DATE	TOPICS COVERED	Quizzes & In-Class Activities
1	01/03	1.1, 1.2, 1.3,1.4 2.1, 2.2, 2.3, 2.4, 3.1, 3.2	In-class Activity 1 and 2 Quiz 1
2	01/10	3.3, 3.4, 5.1, 5.2, 5.3, 6.1, 6.2 **Exam I 02/12**	In-class Activity 3 and 4
3	01/17	7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 8.1 **Exam II 02/19**	In-class Activity 5 And 6
4	01/24	8.2, 8.3, 8.4, 9.1, 9.2, 9.3, 9.4 **Exam III 02/26**	In-class Activity 7 and 8
5	01/31	11.1, 11.2, 11.3, 4.1 4.2, 4.3, 13.1, 13.2	In-class Activity 9
6	02/07	12.1, 12.2, 14.1 **Final Exam 02/09**	In-class Activity 10

Any part of this syllabus is subject to change at the discretion of the instructor. Any changes will be announced in class.