math 12 – statistics – section 43163

instructor: daniel cicala
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web: danielmichaelcicala.github.io
room: mtsc 101
time: tth 1230-1435
textbook: *elementary statistics 10th ed.* by Allan Bluman
technology: a *scientific* calculator and an account at *www.connectmath.com*

course schedule: This is subject to change at the instructors discretion

week 1 ch 1	**week 9** ch 8
week 2 ch 2	**week 10** ch 8, 9
week 3 ch 3	**week 11** ch 9
week 4 ch 4	**week 12** ch 10
week 5 ch 4, 5	**week 13** ch 11
week 6 ch 5, 6	**week 14** ch 12
week 7 ch 6	**week 15** final exam review
week 8 ch 7	**week 16** final exam

online homework: Your Connectmath account at www.connectmath.com will give you access to the textbook, homework assignments, video lectures, and other such resources for the course. You will be able to view your grade at all times, as your homework problems are graded as you do them. You may submit your homework problems as many times as you need in order to get the best score you can before the due date.

The Connectmath account can also be purchased in the RCC bookstore or online at www.connectmath.com. If you cannot purchase the code right away, there is a 14-day free trial period that you can convert to your permanent account within a specified time by paying online.

I cannot assist with the technical issues, unfortunately, so please call Technical Support (1.949.390.2095) who will be able to help you! Common problems include the ability to accept "cookies" and using the wrong browser. Chrome and Firefox are the recommended browsers.

Course codes for connectmath registration is: QRFWT-6HY4H.

Finacial aid codes for those wanting a 2-week free trial are: 8D946-AEE49-C3BD2-46BE0

quizzes: There will be at most one quiz per week. The questions will be pulled verbatim from the exercises listed on the teaching section of my website. The best way to be successful on these quizzes is consistently complete these exercises. There are no makeup quizzes.

You should use these quizzes as a way to understand my grading style (for the exams) and to learn from my comments.

exams:

Midterm exams. Two midterms, each announced two weeks in advance *in class.*

Final exam. FILL IN

No make-up exam except for medical reasons with doctor's note. The instructor reserves the right to determine whether your situation will warrant a make-up. The tests will consist of questions similar to homework, examples done in lecture and contained in the textbook, as well as problems that you may not have encountered beforehand. Calculators will be necessary on exams. Please take care of your calculator issues right away. If it becomes an issue on the test day, it will be too late! Sharing of calculators will not be allowed.

A comprehensive final exam will be given on the date listed above. This will include material covered throughout the entire semester. A calculator is required for the final exam. Failure to take the final exam will result in an "F" grade in the course, regardless of how well they have performed up to that point. No make-up final exam!

grades: Final grades will be computed as follows:

hw	15 %
quizzes	10 %
exams	50 %
final	25 %

The final letter grade is determined by the final percentage average:

90-100%	A
80-89%	B
70-80%	C
60-69%	D
$\leq$ 59 %	F

prerequisites: math 35 intermediate algebra *It is natural to forget things and discussion on what is assumed knowledge may take place at the instructors discretion. However, time for such recollection may not be sufficient, thus it is the student's absolutely full responsibility to prepare for themselves the prerequisite material.*

course description: A study of statistical methods and theri application to hypothesis testing and estimation of population parameters.

student learning outcomes: Upon successful completion of the course, students will be able to:

- Distinguish among different scales of measurement and their implications.
- Identify the standard methods of obtaining data and advantages and disadvantages of each.
- Interpret data displayed in tables and graphically.
- Calculate measures of central tendency and variation for a given data set.
- Apply probability concepts.
- Calculate the mean and variance of a discrete distribution.
- Calculate and interpret probabilities using normal and t-distributions.
- Distinguish between sample and population distributions and analyze the role played by the Central Limit Theorem.
- Construct and interpret confidence intervals.
- Determine and interpret levels of statistical significance, including p-values.
- Identify the basic concepts of hypothesis testing, including Type I and II errors.
- Formulate hypothesis tests involving samples from one and two populations, including selecting the appropriate technique and interpreting the result.
- Use linear regression and ANOVA for estimation and inference and interpret the associated statistics.
- Interpret the output of a technology-based statistical analysis.
- Use appropriate statistical techniques to analyze and interpret applications based on data from business, education, health science, life science, psychology, and the social sciences.

Attendance: Regular attendance is necessary in order to be successful in this math class. Class will begin promptly at the designated start time. Leaving early or arriving late is disrespectful and disruptive. If you miss any lecture, you will be responsible for the material and/or any announcement(s) presented on that day. I strongly encourage you to exchange phone numbers and/or email addresses with at least 2 classmates so that you can obtain any information you missed due to an absence.

Students who choose not to continue the course are responsible for dropping the course to avoid getting a failing grade. Please do not assume that I have done that for you.

Academic dishonesty: The College's policy will be enforced:

"For instances of academic dishonesty a faculty member may take any one of the following actions:

The faculty member may reduce the score on tests or assignment(s), reduce the grade in the course, fail the student in the course or recommend to the ap-

propriate administrative officer that the student be suspended from the course. If course suspension is recommended, the administrative officer will review the information regarding the instance of academic dishonesty, notify the student, and will prescribe appropriate due process procedures.

The administrative officer will make note of the offense in the student's educational records. A second instance of academic dishonesty may result in expulsion proceedings. Any tuition and applicable fees will not be refunded as a result of disciplinary action for academic misconduct."

Special Needs: If you have a documented disability requiring accommodation to achieve course objectives, please contact the Disability Resource Center immediately in order to ensure timely services. If you have not already done so, you should call 222-8060 or visit one of their offices on our three campuses: SCI & TECH 150 on the Moreno Valley Campus, CAK 130 on the City Campus or STU SERV building on the Norco Campus.

academic support: Help from tutors and instructors are available in the Math Learning Center located in MLK 305 & 308. Math Lab hours are 10am to 6pm on Mondays through Thursdays and from 10am to 1pm on Fridays. Free One to One Tutoring is also available through tutorial services in the second floor of the MLK building by appointment.

important dates:

- first day of class – 11 feb
- holiday (no class) – 15-18 feb
- last day to add – 22 feb
- holiday (no class) – 1 april
- spring break – 8-12 april
- holiday (no class) – 27 may
- last day of class – 30 may