

## EXAM 3 Study Guide

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- **1 hour, 45 minutes.** It will start at 6:00 pm and end at 7:45 pm.
- This is a take-home exam. This is not during regularly scheduled class time.
  - You will not need to sign-in to Zoom or have your camera on during the test. It is entirely on the “honor system” and I expect everyone to adhere to the rules stated below.
    - Please plan ahead for this and try to ask family members, roommates, to not disrupt you during the test.
    - If you have any trouble arranging this, email me immediately and schedule a time for us to have a conference call.
- I will post the test to Canvas at 6:00 pm.
- You will need to have 5-10 blank pieces of paper with you at the beginning of class to write your solutions to the test. Bring your writing utensils as well. You do not need a stapler.
  - I ask that you write your solutions on only one side of the page (aka the “front side” of page only). This helps when photographing your work.
  - Please submit the problems in the order provided on your test.
  - Please label each problem and part carefully. If I don’t know what problem you’re solving, no points will be given.
  - Submit your work in the order of the test. Problem 1, Problem 2, etc.
- You will need to submit a PDF of your test solutions by 7:45 pm.
  - This should give you plenty of time to write full solutions to the test; take pictures of each of your pages; and submit the test as **ONE PDF file**.
  - **Point deductions for submitting your test late:**
    - 7:45 -- 7:55: I will deduct 10 points from your score
    - Exams received after 7:55 will not be graded and be given a score of 0.
- At the top of your first page: please **hand-write** the statement provided below in quotes; **print your name**; put the **date**; and **sign your name** below it that acknowledges the **“honor code”**:
  - “On my honor, by printing and signing my name, I vow to neither receive nor give any unauthorized assistance on this examination. I understand what my professor has deemed appropriate and inappropriate for this test and vow to follow these rules.”
- **Allowed Materials:**
  - **A Ti84 calculator!** I will do a calculator check to make sure you do not have graphing functions.
  - Blank paper to write your test solutions
  - Writing utensils (pencils, erasers, etc)
  - The Exam 3 Formula Sheet & the Chi-Squared distribution table (Canvas: Files >> Exams >> Exam 3 folder)
- Materials you are **NOT allowed** to use during the examination:
  - Your textbook or class notes
  - Your cell phone (do not text or take phone calls)
  - Digital or printed out notes: the slides, the study guides, etc
  - You cannot consult your HW
  - You cannot receive or give any outside help (no getting help from a sibling or friend either in person, via chat, message board, text message or any form of communication--again--you will be on camera the entire time so I will be looking for suspicious behavior)
  - You cannot use your computer to look up anything using the internet (don’t google; don’t consult “homework help” websites, etc)

- **A Warning:** I know all the “help” sites as well and will look up to check if students are cheating by copying answers. If I suspect cheating, a score of 0 will be given.
  - **Showing work.** Correct answers without showing work, or clearly “copied” work will receive zero points.
  - You might be asked to have a 1-1 conference to defend your work and explain to me all your steps on test questions.
  - I hate to have to write out all these rules and to have to “police” for bad behavior. Understand that I expect the majority of students to do their work honestly but a few “bad seeds” can ruin things for all of us. However, I want to make sure the rules are clear and fair for all students.
  - **Another warning:** I will be posing multiple versions of the test so don't try asking “how do you do #1” since it will not likely match!
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## Material Covered (in brief)

- **Chapter 7:** 7.1, 7.2
  - **Chapter 8:** 8.1, 8.2
  - **Chapter 9:** 9.1, 9.2, 9.3, 9.4
  - **Miscellaneous: Rounding Rules**
  - **Calculator Instructions:**
    - Some are provided on the formula sheet and some are not.
    - The ones that are not provided that you should know are: how to find Confidence Intervals
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- **Rounding Rules**
  - **Stats Law of Rounding**
    - When rounding statistics based on data, round (final answers) to **ONE MORE significant figure** than the original data.
    - When to use: mean, median, standard deviation, variance, etc
  - **Z-Scores**
    - When rounding z-scores, round to **TWO decimal places**.
  - **Linear Regression & Correlation**
    - When rounding correlation coefficient (r), round to **THREE decimal places**.
    - When rounding the slope (b) and y-intercept (a) in the regression line, round to **FOUR decimal places**.
  - **Probabilities**
    - When rounding a probability, round to **THREE significant figures**.
  - **Miscellaneous**
    - When rounding proportions,
      - round to **three decimal places** when in **decimal form**, or
      - Round to **one decimal place** when in **percentage form**.
    - When rounding population or sample sizes (people), always **round UP**
      - Ex: if we estimate that 23.2 people, then round up to 24 people