Exam 1 Chapters 1-5

This document may be amended up till the time of the exam.

Assignment 2 covers these chapters so completing the bulk of the problems before the exam will help. However, the biggest help will come from diligently following these points:

1. Bayes rule for Testing
2. The exam will have at least 1 example from Chapter 4 included verbatim.
3. The material to do with MGF's
    a. How to derive a MGF
    b. How to use the MGF to create the first two moments
    c. How to manipulate moments to form σ^2
    d. Look at examples in class.
4. Z manipulation – see CANVAS files
5. Chebyshev proof OR Expectation proof
6. Using R functions to calculate probabilities and densities.
    a. P-stem()
    b. D-stem()
    c. Need to understand how calculation of probabilities differ when X is discrete or continuous.
    d. End points etc
7. Properties of densities (ch 5)
8. Laboratories – functions:
    a. How they work
    b. Can you comment on a function?
    c. Skills developed will be examined.
    d. Graphical skills (ggplot has been emphasized)