The Exam scheduled for March 24. It will cover Chapter 4 and 5. The exam will be all multiple choice – some problems will require you to compute answers while about 25% of the problems will test you on the understanding of the subject matter. As before you will be able to use one 8.5 x 11 sheet of paper with anything written on both sides. Any tables you need will be provided to you.

For the Computational Problems: (Worth about 75% of the total grade) This part will be similar to your homework problems, examples in lectures and problems on the quiz. This part will test you on applications of the concepts.

For the Non Computational Part: The purpose here will be to see if you actually understood the material and not simply that you can use the formulae or the definitions. However, know all possible definitions for this part and be prepared to do simple calculations. Concentrate on:

1) Meaning of the expected value of a random variable.

2) The definition of a binomial random variable. You should know all the conditions that have to be satisfied by the binomial experiment. Also know the mean and the variance of a binomial random variable.

3) Know the definition of a probability density function and that probabilities assigned to individual points are zero for a continuous random variable.

4) Properties of a normal distribution and some examples of the same.

5) Definition of a standard normal variable $Z$ and its relationship to the $X$ where $X$ is normal with mean $\bar{X}$ and variance $\sigma^2$. Recall this relationship is: $Z = \frac{X - \mu}{\sigma}$

6) Difference between a continuous and a discrete random variable and be able to give examples of the two.