Regarding discrete distribution families, for Test 1 you will need to know about each of the following:

- discrete uniform distributions
- Bernoulli distributions
- binomial distributions
- negative binomial distributions
- geometric distributions
- hypergeometric distributions
- Poisson distributions
- multinomial distributions
- multivariate hypergeometric distributions

For each of these, you will need to know:

- its parameters and how our textbook denotes its probability mass function ("probability distribution" in the text), including which values have 0 probability
- its mean and how to compute it
- its variance and how to compute it
- its moment generating function if that is included in Chapter 5
- how it arises in general terms
- a typical example in which it is used as a model.

I will present a few of these distribution families in class, and each student will present one distribution family as well.