Concepts to know for Exam 3

This exam covers ch 7 and Chapter 8

- sample space
- uniform/not uniform
- Probability using
- Venn diagrams
- Trees
- tables
- counting techniques
- formulas
- Conditional probability
- Reduced sample space
- Formula
- Backwards tree
- Independent Events
- Test for independence: Two events, A and B , are independent if $P(A \cap B)=$ $P(A) P(B)$
- Using the concept of independence
- Random variables
- Finite Discrete
- Infinite Discrete
- Continuous
- Probability distribution
- Histogram
- Mean, Median, Mode, Variance, Standard Deviation
- Expected Value
- Fair game
- Odds
- in favor of E
- against E
- Probability from Odds
- Chebychev's inequality(theorem)
- Bernoulli Trials (Binomial Distribution)
- mean, standard deviation
- expected value
- n, p, q, r
- Normal Distribution
- The standard normal random variable.
- All probability and and counting methods.
- Any additional topic discussed in class.

