Stat 400, Chapter 2.1-2.5 Summary ~ things you should know

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Chapter 2.1-2.5 - Important concepts:

sample space union, intersection and complement of events simple probability formula empirical probability relative frequency tree diagram Venn diagram permutations and combinations conditional probability Bayes' Theorem independence of events

Be able to:

define events from a sample space, given a description of an experiment calculate probabilities for equally likely events calculate probabilities, given an empirical experiment construct a tree diagram for a simple experiment construct a Venn diagram for a simple experiment calculate probabilities for unions, intersections and complements calculate probabilities involving permutations and/or combinations determine conditional probabilities calculate probabilities requiring Bayes' Theorem determine whether or not two events are independent given two events that are independent, calculate probabilities