Math 4740 - Test 1 Study Guide
Test 1 covers HW 1 and HW 2.

Homework 1:

- Creating a sample space S and probability function P.
  Calculating P(E) for events E.
  Calculating the union, intersection, and complement of events.
  See problems 1, 2, 3, 4.

- Various probability questions using dice.
  See problems 5, 6.

- Constructing probability spaces and calculating probabilities using balls in a bag model.
  See problems 7, 8.

- Problems 9 and 10 will **NOT** be on test 1.   Only do these two if you want to.

Homework 2:

- Counting problems: permutations and combinations.
  Problems 1, 2, 3, 4, 5, 6, 9.

- Probabilities with dice.
  See problems 8, 10, 11

- Probabilities with coins.
  See problems 12, 13.

- Probabilities with cards.
  See problem 16.

- CA SuperLotto Plus
  See problem 15.

- Other probability questions (random numbers, random seatings of people).
  See problem 7, 14.

Homework 2 (Math 151 Winter 2012 handout):

- More probabilities with poker hands, blackjack, dice.
  See problems 15, 18, 42.

Homework 2 extra problems:

- Probabilities with cards and dice
  See problems 1 and 2.