198:206 Discrete Structures II, Fall 2017

Section: 05  TUES, THURS 3:20-4:40, Til 232;  REC. W 3:35-4:30 SEC 205
06  TUES, THURS 3:20-4:40, Til 232;  REC. W 1:55-2:50 Til 253
HONS  TUES, THURS 3:20-4:40, Til 232;  REC. as announced

Instructor:  W. Steiger  Hill 417 (848) 445-7293 steiger@cs.rutgers.edu
TA’s:  t.b.a.

• Office Hours:  Mondays 3-4 or by arrangement
• Course Webpage:  http://www.cs.rutgers.edu/~steiger/206.html
   (and Sakai - “INTR DISCRT STRCT II F17”)
• Objectives:  To learn some elements of combinatorics and discrete probability and how they
   apply to Computer Science and to life.
• Expected Work:  Regular written homework (0-25%); 1 (or 2) test(s) and a final (3/4 -
   100%)
• Topics:
  1. Basic Ingredients (random experiment $\mathcal{E}$, sample space $S$, events, probability
     measure $P$).
  2. Conditional Probability, Bayes Theorem, Independence.
  4. Random Variables.
  5. Bernoulli Trials.
  7. Further Topics:  (i) Recurrences, Generating Functions; (ii) the random walk on the
     integers, More

  •  NO TEXT IS REQUIRED

• References:  (Books on reserve at SEC reference desk)

  1. Succinct (but comprehensive) notes (Review Sheets) for ALL topics will be handed out.
  2. Sheldon Ross, “A First Course in Probability”, Prentice Hall (the 9th edition is the latest; 
     earlier editions are quite similar).
     Feller, John Wiley.

NO RECITATIONS IN FIRST WEEK