

Syllabus For Math 358:01

Spring, 2007 at Rutgers-Camden

COURSE TITLE: Advanced Discrete Mathematics

TEXT: Discrete Mathematics and Its Applications, Sixth Edition, by Kenneth H. Rosen, McGraw-Hill, 2007.

COURSE DESCRIPTION: This is a three credits course on discrete mathematics covering the following topics: Sets, relations, and functions; Mathematical induction; Recursion; Propositional logic; Introduction to first order logic; Boolean algebra; Elements of combinatorics; Introduction to graphs and trees. We plan to cover the following sections (subjected to change): 1.1-1.7, 2.1-2.4, 3.1-3.5, 3.8, 4.1-4.3, 5.1-5.3, 6.1, 7.1, 7.5, 8.1, 8.3, 8.5, 9.1-9.5, 10.1, 11.1, 11.2.

COURSE INFORMATION:

- Instructor: Siqu Fu
- Office: BSB 428
- Office hours: TuTh 1:30-2:30pm and by appointments
- Phone: 225-2349.
- E-mail: sfu@camden.rutgers.edu
- Web page: <http://crab.rutgers.edu/~sfu/>
- Lectures: TuTh 3:00-4:20, ATG-222

GRADING POLICY: There will be two midterm exams and a comprehensive final exam. There will also be several homework assignments and/or quizzes.

- Attendance, Participation, Homework, and Quizzes—20%
- Midterm I—20%
- Midterm II—25%
- Final—35%

Dates for the quizzes, homework assignments, and exams will be announced in class. Attendance is mandatory.