

**Course Outline: 3012 T – Applied Combinatorics**  
(Classroom: Skiles 268, 4:35pm – 5:55pm)

**Instructor :** Prasad Tetali, office: Skiles 234, email: tetali@math.gatech.edu

**Office Hours:** Mon. 1:30 – 3:00pm, Thurs. Fri. 2:00–3:00pm (tentative).

**PLEASE MAKE SURE THAT YOU ARE IN THE CORRECT SECTION!**

Text book: *Discrete and Combinatorial Mathematics (fifth edition)*, by Ralph P. Grimaldi.

**Syllabus:** Chapters 1, 4, 5, 8 – 12 and time permitting : parts of Chapters 13, 17  
I anticipate spending roughly one week on each chapter, excepting Chapters 1, 10, and 11, which might take two weeks each.

**Course Objectives.** To introduce principles of counting, teach problem solving techniques, and develop a background in discrete mathematics.

There will be THREE quizzes in addition to TWO tests and a FINAL exam. Quizzes will be announced at least one class before they happen. *No make-up tests will be allowed.*

**Test 1:** Monday, Sept. 17th, **Test 2:** Monday Nov. 5th

There will be a homework every week. Late homeworks are penalized by 20% deduction of credit. You are advised to solve as many problems as you can; that is the only way to learn this material well.

**General grading policy:** HWs 20%, Three Quizzes 20%, Two Tests 30%,  
**Final Exam 30%**

Suggestions:

- Please feel free to ask questions any time: before, after or during the class.
- Try to make use of my office hours; special appointments can be made.
- Please work on homework problems alone.
- Please hand in **legible** answer sheets **on time**.