Course: CS 1050 D

Instructor : Prasad Tetali, office: Skiles 234,   email: tetali@math.gatech.edu
Office Hours: Mon. Wed. Fri. 2:00 − 3:00pm (tentative)

Website: Go to http://www.math.gatech.edu/∼tetali/ and then click under SPR 2006: CS1050

Course Outline:

Text book: *Discrete Math with Graph Theory* by Goodaire and Parmenter, (Third Edition, 2006), Prentice-Hall.
   Please pay attention to class notes though, since treatment might deviate!

Course Objective.
   • Introduction to fundamental concepts in Computing and Discrete Math, with special emphasis on (mathematical) Reasoning.

Topics:
   • The Logic of Statements
   • Methods of Proof
   • Very elementary number theory
   • Induction
   • Sets and Relations
   • Functions
   • Basics of Counting and Probability
   • Recursion
   • Efficiency of Algorithms
   • Graphs and Trees

   Most topics will be discussed for about a week.

General grading policy : Homeworks 25%, Tests Plus Quizzes 40%, Final exam 35%
Grade **A**: 90% and above, Grade **F**: 50% and below.

Test 1: Monday, **February 6th**
Test 2: Wednesday, **March 8th**
Test 3: Monday, **April 10th**

Two Quizzes: to be announced later.

No make-up tests or quizzes will be allowed.
Homeworks will be assigned, collected and graded on a weekly basis. You are strongly advised to (attempt to) solve all the homework problems, and to learn the solutions to those missed. *It is OK to collaborate in pairs or in a three-some on homeworks, but PLEASE MAKE SURE YOU WRITE YOUR OWN VERSION OF THE SOLUTION.*
Late submission of HWs is discouraged with a penalty of 30%.

TA Info. R. Brooks Van Horn is the TA for the class. Brooks' email: vanhorn@cc.gatech.edu; his office hours: **Mon., Wed.: 4:35-5:35 (CoC commons); Thurs.: 1-2 (CoC commons)**.

Suggestions:
   • Please feel free to ask questions at any time: before, after or during the class.
   • Please make use of my office hours.
   • Class participation and discussion is highly encouraged.