Course: CS1100 : Discrete Mathematics
Time/Room: 11:00AM 11:50AM CAP 337
Description: A study of discrete mathematics with special emphasis on topics applicable to computer science and programming. Concepts covered include number systems, models, combinatorics, graphs, recursion, networks, and analysis of algorithms. Prerequisite: MAT 1020 or MAT 1025 or equivalent with a grade of C- or higher.

Instructor Barry L. Kurtz (www.cs.appstate.edu/~blk)
Office/Phone 119 CAP Bldg., 828-262-7008
Office hours MTWTF 9:45-10:45, 2:00-3:00 or by appointment


Grading Policy:
- Class Participation/Single problem Quizzes 10%
- Homework, Half-hour quizzes 35%
- First Exam 15%
- Second Exam 15%
- Final Exam 25%

There will be a single problem quiz at the start of every lecture based on the materials covered the previous day. The percentages shown above are guidelines and may vary during the semester. Examination grades will be curved when the exams are returned so that you will have a good indication of your class standing.

Course Coverage
- Chapter 1: Number Systems, half hour quiz at end of chapter
- Chapter 2: Sets and Logic, half hour quiz at end of chapter
- Chapter 7: Boolean Algebra
  \textit{First Exam}: Chapters 1, 2, 7
- Chapter 3: Combinatorics, half hour quiz at end of chapter
- Chapter 4: Probability
  \textit{Second Exam}: Chapters 3 and 4
- Chapter 5: Relations and Functions, half hour quiz at end of chapter
- Chapter 8: Graph Theory
  \textit{Final Exam}: comprehensive with an emphasis on chapters 5 and 8

Occasionally in case studies the textbook presents algorithms using Pascal. We will study the same algorithms using Java. You will not be required to write any computer programs as homework or on examinations. However, you should be able to logically analyze simple algorithms given to you as Java programs.

FINAL EXAM: Thursday, December 9, 2004 Noon-2:30 PM
Teaching Philosophy
This course will follow the textbook closely. Supplemental materials from other sources may also be included. Exams will be based on lecture materials and exercises. There will be a strong emphasis on being able to solve a wide variety of mathematical problems rapidly and correctly.

Attendance and Daily Quiz Policy
All students are expected to attend class unless absent with a valid, documented excuse, such as a note from the infirmary. Every lecture will start out with a one question quiz based on the previous lecture; this will reward regular attendance. The lowest two daily quiz scores will be discarded to compensate for missed classes; there will be no make up daily quizzes.

Late Submission Policy
No exercises or other course components will be accepted late unless accompanied by a valid, documented excuse, such as a note from the infirmary.

Communications Policy
Your email account on the “cs” machine will be used to communicate detailed course information. You are required to check your email once a day during the school week.

Collaboration Policy
No discussion of any kind, except with the instructor, is allowed during exams. Access to books, notes or other material is strictly forbidden.