CSC 2259 – Discrete Structures

**Fall 2010, Syllabus**

Department of Computer Science, Louisiana State University

**Class Time & Location:** Tuesday & Thursday 10:40-12:00; 218 Tureaud Hall

**Instructor:** Prof. Konstantin Busch  
*Office:* 286 Coates Hall  
*Phone:* 578-7510  
*Email:* busch (at) csc lsu edu

**Office Hours:** Tuesday & Thursday 1:00-2:00pm


**Course Goals:**
Cover fundamentals of discrete mathematics related to computer science. The discrete structures are essential in designing and analyzing efficient computer algorithms.

**Topics Covered:**
- Logic and Proofs
- Sets, Functions, Sequences, Sums
- Integers, Matrices
- Induction and Recursion
- (Advanced) Counting
- Discrete Probability
- Relations
- Graphs

**Grading:**
- Homework assignments: 40%
  - There will be about 6 homework assignments
- Midterm Exam: 30%
- Final Exam: 30%

**Grade Scale:**
- A = 100-90 %
- B = 89-80 %
- C = 79-70 %
- D = 69-60 %


**Academic Integrity:**

No cheating will be tolerated. LSU Honor Code governs all work in this course. Unless indicated otherwise, all written work handed in must be done only by the individual whose name appears on the document. Regarding student cooperation on the homework assignments, you may discuss with other students high level concepts of the homework problems; however, what you submit must be your own solutions. Your instructor is authorized to give you help on all work (help will not be given if it provides unfair advantage). Any deviation from these guidelines will result to severe measures such as lowering the grade or failing the course, and the appropriate authorities on campus will be notified.