Math 117 - **Discrete Mathematics**, Fall 2004

9:30 – 10:45  Tuesday  Calloway West 125  
9:30 – 10:45  Thursday  Calloway West 020


**Instructor:** Robert J. Plemmons, Reynolds Professor of Mathematics and Computer Science  
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Office hours: 3:00 to 4:30 Tuesday and Thursday (or by appt.)

**Prerequisites:** Interest in *applied mathematics and computer science*.

We will cover parts of all 10 chapters in the text, except for Chapter 8. Applications to computer science topics will be emphasized.

**Topics:**

Ch. 1 and Ch. 2. Logic of Compound and Quantified Statements  
Ch. 3 and Ch. 4 Methods of Proof, Sequences and Induction  
* Quiz # 1

Ch. 5. Set Theory  
Ch. 6. Counting and Probability  
Ch. 7. Functions  
Ch. 8. Recursion  
Ch. 9. Efficiency of Algorithms  
* Quiz # 2

Ch. 10. Relations  
Ch. 11. Graphs and Trees

**Grading:**

• Two 75 min. quizzes 30% each  
• Homework & class participation 10% total

(Homework papers will usually be collected at Thursday’s class. **No late homework accepted.** Two lowest HW scores will be dropped)

• Comprehensive final exam 30%