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

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

Text: Discrete Mathematics with Applications, S. Epp, Brooks/Cole, Third Edition, 2004. (Note that this is a new edition of the book.)

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%