

MAD 1100 – Mathematics for Information Technology
SYLLABUS
SUMMER 2007

Text: A First Course in Discrete Mathematics by John C. Molluzzo and Fred Buckley, (Waveland Press, Inc. 1986).

Although Mathematics for Informational Technology shares many topics with Discrete Mathematics, the level of the course should be comparable to Finite Mathematics. Use examples rather than general proofs for concepts.

1. Binary Numbers, Octal and Hexadecimal System – 3 classes
1.1, 1.2
2. Sets and Logic – 5 – 6 classes
2.1 - 2.8
3. Combinatorics – 4 classes
3.1 – 3.4, 3.5 inclusion-exclusion Venn Diagrams only (#17 homework)
4. Relations and Functions – 3 – 4 classes
5.1 – 5.5
5. Boolean Algebra – 3 – 4 classes
7.1 – 7.4
6. Graph Theory – 3 – 4 classes
8.1, 8.2, 8.3*, 8.4*, 8.5*, 8.6*
* Include some if time permits

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New Syllabus – Summer 2007