



## MATHEMATICS 271 "DISCRETE MATHEMATICS"

**Calendar Description:** H(3-1T-1)

Proof techniques. Sets and relations. Induction. Counting and probability. Graphs and trees.

**Prerequisite:** Mathematics 211 or 221 or 213.

### *Syllabus*

<u>Topics</u>	<u>Number of Hours</u>
Introduction to Proofs	4
Sets and Relations	8
Functions	3
Induction	5
Elementary Number Theory	4
Counting: Permutations, Combinations, Probability	8
Graphs and Trees	4
<b>TOTAL HOURS</b>	<b>36</b>

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Prereq to include Math 213 Fall 2009