



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.

Suggested Text: "Mathematics, A Discrete Introduction", by Edward R. Scheinerman (Brooks/Cole).

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
TOTAL HOURS	36
