

FACULTY OF SCIENCE Department of Mathematics and Statistics

Mathematics 271 Discrete Mathematics

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

Course Hours: H(3-1T-1)

Prerequisite(s): One of Mathematics 211 or 213 or 221.

Antirequisite(s): Credit for both <u>Mathematics 271</u> and <u>273</u> will not be allowed. Notes: Philosophy 279 or 377 is highly recommended to complement this course.

Syllabus

<u>Topics</u>		Number of Hours
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

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2001:08:29 KS:jml Suggest Text removed 2008:01:14 Prereq to include Math 213 Fall 2009