



PURE MATHEMATICS 371
"COMBINATORIAL MATHEMATICS"

Calendar Description: H(3-1T)

Counting, graph theory, combinatorial optimization.

Prerequisite: Mathematics 271.

Syllabus

<u>Topics</u>	<u>Number of hours</u>
Graphs (eulerian graphs, trees, hamiltonian graphs, planarity, colouring, digraphs)	12
Counting (recurrence relations, generating functions, partitions)	12
Posets (linear extensions, dimension, Dilworth's theorem)	12
TOTAL HOURS	36

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