# 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*

| Topics | 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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