

## CSE230 Course Outline

Chapter 1	The Foundation: Logic and Proofs
Chapter 2	Basic Structures: Sets, Functions, Sequences, Sums, and Matrices
Chapter 3	Algorithms*
Chapter 4	Number Theory and Cryptography
Chapter 5	Induction and Recursion
Chapter 6	Counting

The chapters are selected following the first book of the recommended books section

\* Optional Contents

### Recommended Books

1	Discrete Maths by Kenneth H. Rosen
2	Discrete and Combinatorial Mathematics by Grimaldi Ramana
3	The Theory of Numbers by Andrew Adler, John E. Coury

\* The third book is for number theory only

Marks Distribution	
10%	Attendance
25%	Weekly Quizzes (8-9 pop quizzes)
30%	Midterm Examination (30 marks) (60 - 90 minutes)
35%	Final Examination (40 marks) (90-120 minutes)

**\*\* (n-3) quizzes will be counted. There will be no makeup quiz.**