Test 1: Monday 10/4, 11:00 AM - 12:15 PM (12:15 – 12:30 PM to scan and submit)

- Number systems
 - Convert any base to any base
 - Quick conversion between base 2, 4, 8, and 16
 - Add, subtract, multiply in any base
- Logic gate implementation of a Boolean function
- Boolean properties and laws
- Simplification of Boolean algebra using Boolean laws
- Representing Boolean functions in terms of
 - Sum of min-terms, product of max-terms, standard sum of products, standard product of sums, minimum sum of products, minimum product of sums
 - Representing Boolean functions using all NAND or NOR gates.
- Simplification using K-map (up to 5 variables)
 - SOP, POS, Standard SOP and POS, Min. SOP and POS
- Design of combinational circuits