Lab #4 – Design of a Full Adder

(For students taking EGC230 this semester)

In this lab you will design a full adder and verify its operation. A full adder has three inputs and two outputs (Sum and Carry).

- 1. Using Electronic WorkBench, design and implement a full adder using XOR, AND and OR gates and verify its operation.
- 2. Convert your design using 7400 (NAND) and 7486 (XOR) devices and verify its operation.
- 3. Implement the design on the breadboard and verify its operation.
- 4. Have T/A or instructor verify your circuit.

In preparation for this lab, design a full adder in your notebook.