

ECE 221 Digital Logic Design

Homework Assignment #1

Due Date: September 1, 2003

Background Reading: Chapter 1

- Assignment:
1. Complete the conceptual design of the traffic light controller that was developed in class. Describe the operation using either sentences or a flow chart along with any performance constraints you have identified. (put the name of your partner on the top of the first page of the design)
 2. Decompose the following objects into at least three levels of hierarchy:
 - a) Wehrenberg Hall
 - b) Airplane
 - c) Sports Team (you can pick the sport - football, soccer, basketball)
 3. In paragraph form describe the advantages of using computer-aided design tools when creating digital circuits.

Name: _____

Honor Code Pledge:

Signature: _____

Please staple this sheet to the front of your assignment.

Problem 1	/40
Problem 2	/30
Problem 3	/20
Total	/90