

**UNC Charlotte, Department of Electrical and Computer Engineering  
ECGR 2181, Fall 2009, Homework #10  
Due: 11/18/09 or 11/19/09, During your class session (100 points)**

**Show all of your work!!!! Also, use ONE side of the paper and do not staple.**

1. Do problem 3.11 in the textbook. (10 points)
2. Do problem 3.12 in the textbook. (10 points)
3. Do problem 3.13 in the textbook. (10 points)
4. Do problem 3.14 in the textbook. (10 points)
5. Do problem 3.15 in the textbook. (15 points)
6. Do problem 3.16 in the textbook. (15 points)
7. Repeat problem 3.15 in the textbook, except assume the D-Flip-flop is negatively-edge triggered. (15 points)
8. Repeat problem 3.16 in the textbook, except assume the D-Flip-flop is negatively-edge triggered. (15 points)