

UNCC, Department of Electrical and Computer Engineering

ECGR 2181, Spring 2005, Homework #3, Due: 2/1/05, at the beginning of class (20 points)

1. How much time did this homework take you?
2. Perform the following binary multiplication. **SHOW ALL WORK!**
00101011 times 01101101. How many bits are needed for the solution?
3. Perform the following binary division. **SHOW ALL WORK!**
0101101001101111 divided by 01100011 (also show the remainder).
4. Using the example shown in class on 1/24/05, show the bit pattern transmitted via RS-232 transmission of the ASCII string "Hello" if you are communicating at 14400 bits per second, one start bit, one stop bit, odd parity, MSB sent first.
5. How much time is needed to send the message in Problem 4?