

UNC Charlotte, Department of Electrical and Computer Engineering
ECGR 4101/5101, Fall 2009, Homework #7
Due: 11/2/2009, at the beginning of class (20 points)

Assignment should be typed, a hard copy turned in to instructor

1. (1 point) How long did this homework take you?
2. (15 points) From various sources available to you, contrast the following serial communications standards: RS232-C, RS423, RS422, and RS485. **YOU MAY NOT COPY CONTENT FROM WEBSITES!!!** Read the sources, and paraphrase the concepts. Anyone who includes text directly copied from a website will receive a zero for the assignment. List your sources of information.
3. (2 points) Consider a byte of data transmitted at 9600 baud with 8 data bits, 1 parity bit, 1 start bit and two stop bits, system clock of 12 Mhz. How long does the entire message (byte with overhead) take to transmit? Show your work.
4. (2 points) Repeat Question 3, but with a system clock of 24Mhz. Show your work.