## CprE 489 Homework 1

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1)

- (a) 00011 00101 00110 01001 01010 01100 11000 10001 10010 10100 11000
- (b) # of undetectable errors = # codewords 1 With data length of n, # of possible errors =  $2^n$  1 Thus, FUE =  $\frac{\#codewords-1}{2^5-1} = \frac{10-1}{2^5-1} = 9/31 = .29$

(c)

2)