

## 1 Logistics

We are going online now. We will have section in this format moving on Zoom. The Github for this section and all the notes will be on <https://github.com/tsgoten/csm70-notes>.

## 2 Message Corruption

So lets say we are sending message of length  $m$ . So, we will sending something eventually of length  $n$ . Once we send  $n$  we say that 20% will be corrupted. How long should we make  $n$ . So the question is rephrased to being how long is  $n$ .

$$\begin{aligned}n - pn &= m \\ n &= \frac{m}{1-p}\end{aligned}$$

For Berlekamp welch

$$\begin{aligned}n - p(2n) &= m \\ n &= \frac{m}{1-2p}\end{aligned}$$

## 3 Berlekamp-Welch