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One way to verify this is to compute the product  $cHT$  for an arbitrary codeword  $c = [x; y; z]$ :  
 $[xyz] \begin{bmatrix} 2 & 4 & 1 & 0 & 0 & 1 & 1 & 1 & 3 & 5 \end{bmatrix} = [x+z; y+z]$   
So,  $c = [xyz]$  is a valid codeword if  $cHT = 0$ , i.e. if  $[y+z; x+z] = [0; 0]$ . Algebraic manipulations over binary show that  $x=y=z$ . Thus the only valid codewords are indeed  $f000; 111g$ .

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The term algebraic coding theory denotes the sub-field of coding theory where the properties of codes are expressed in algebraic terms and then further researched. [citation needed] Algebraic coding theory is basically divided into two major types of codes: [citation needed] Linear block codes; Convolutional codes; It analyzes the following three properties of a code – mainly: [citation needed]

## **Coding theory - Wikipedia**

Instructor: John Gill Email:  
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650-723-4715 Office: Packard 266 Office  
hours: Wed 2:30-4:00pm, Thu  
10:30-12:00n, and by appointment  
Administrator : Helen Niu Email:  
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650-723-8121 Office: Packard 310  
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