Error Correcting Codes

Syllabus

陳彥銘

Basic Information

- Teacher: 陳彥銘
  Office: EC 8038
  Office Hour: Tue. 15-17 pm; Thu. 9-12 am
  Email: emerychen.cm@gmail.com

- Time: Thu. 18:20-21:00

- Location: EC 2010
  Course materials:
  http://mx.nthu.edu.tw/~ymchen/course.htm

Required Background Knowledge

- Linear algebra
- Probability theory

Reference books

- Shu Lin and Daniel J. Costello, Jr., *Error Control Coding, 2nd Edition,* Pearson Prentice Hall, 2004.

Syllabus

- Introduction
- Algebra
- Linear Black Codes
- Cyclic Codes
- BCH Codes
- Convolutional Codes
- Further Issues

Grading

- Midterm: 30%
  Time: 11/16

- Final: 30%
  Time: TBD

- Homework: 25%

- Report: 15%