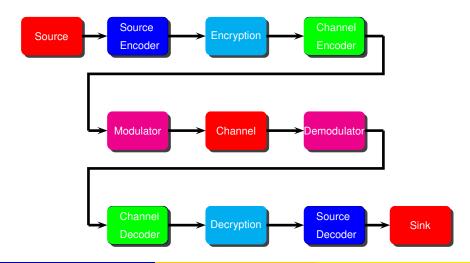
EECS 455 Lecture 0: Syllabus

Communication System Block Diagram



Course Information

- Course Title: EECS 455: Wireless Communication Systems
- Course Text: Course Notes
- Course Instructor: Professor Wayne Stark
- Office: 4242 EECS
- Office Phone: 763-0390 (Mostly not useful)
- Email: stark@eecs.umich.edu (Useful).
- In-Person Office Hours: MW 10:30-11:00am (after class)
- Zoom Office Hours: Tuesday, Thursday 1:30-2:30 or by appointment
- Instructional Aide: Alec Xu
- Zoom Office Hours for IA: Monday, Wednesday 5:00-6:00pm.

Course Prerequisite

EECS 216 and EECS 301 or equivalent

Course Schedule

- First day of class: Monday August, 30.
- Fall Break: Monday-Tuesday October 18-19.
- Thanksgiving Break: November 22-26th.
- Last day of Classes: Monday, December 10th.
- Exam 1: Friday, October 1st.
- Exam 2: Friday, November 5th.
- Exam 3: Friday, December 10th.
- Final Exam: None

Course Grading

25 %
25 %
25 %
25 %
100 %

- Lectures: Monday, Friday 9:00-10:20am (3150 Dow)
- Discussions: Friday 9:30-10:30am (1003 EECS)

Tentative Homework Schedule

- HW 1: September 8
- HW 2: September 15
- HW 3: September 22
- HW 4: September 29
- HW 5: October 13
- HW 6: October 20
- HW 7: October 27
- HW 8: November 3
- HW 9: November 17
- HW 10: December 1
- HW 11: December 8

Course Outline

- Fundamental Limits of Communication
- Review of Signals, Systems, Noise
- Binary Modulation/Optimum Demodulation
- M-ary Modulation/Optimum Demodulation
- Convolutional Code
- Block Codes
- Practical Examples: LTE, 5G, GPS, WiFi, Bluetooth, WWVB, DVB, Cable Modems