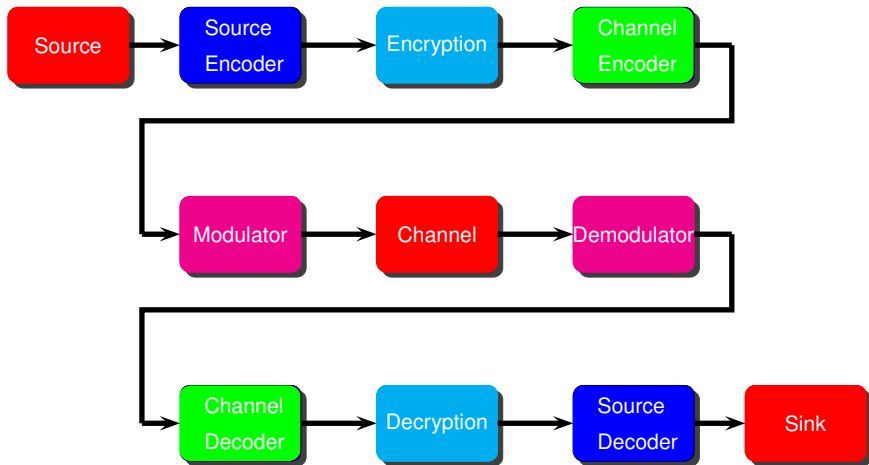


# EECS 455 Lecture 0: Syllabus

## 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](mailto: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

Homework	25 %
Exam 1	25 %
Exam 2	25 %
Exam 3	25 %
Total	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