ENEE 623: Digital Communications (Fall 2018)

Lecture: MW 5:00-6:15pm, EGR 3106.

Instructor: Sennur Ulukus, 2337 A. V. Williams Building, ulukus@umd.edu, (301) 405 4909.

Course web-page: http://www.ece.umd.edu/~ulukus/


Course Outline:

1. Deterministic and random signal analysis (Chapter 2)
2. Optimum receivers for AWGN channels (Chapter 4)
3. Digital modulation schemes (Chapter 3)
4. Carrier and symbol synchronization (Chapter 5)
5. Digital communications through band-limited channels (Chapter 9)
6. Inter-symbol-interference and equalization (Chapter 9)
7. Introduction to wireless communications
8. Multi-user detection

Grading: Homeworks (10%), midterm (40%), final exam (50%).

Midterm date: Monday, October 15, in class.

Final exam date: Saturday, December 15, 4:00pm-6:00pm.