



SYLLABUS—GENERAL INFORMATION

- Course:** EECS 354: Digital Communications (Spring 2023)
Meeting time: 1:00PM – 2:15PM TR
Meeting Location: Nord 206
- Instructor:** Dr. Pan Li
Office: Olin 612
Email: lipan@case.edu
Phone: 216-368-0382
Webpage: <http://engineering.case.edu/profiles/pxl288>
Office Hours: by appointment
- Prerequisite:** Grade of C or better in EECS 351 Communications and Signal Analysis or equivalent
- Text/Software:** Simon Haykin and Michael Moher, *Communication Systems*, 5th ed., Wiley, 2009. ISBN-10: 0471697907. ISBN-13: 978-0471697909.
- Course Objectives:** Students will learn how to analyze and design analog and digital communication systems. Specifically, students will learn the theory and application of:
- Fourier analysis
 - Time-domain analysis
 - Probability theory
 - Stochastic processes
 - Amplitude modulation (AM)
 - Frequency modulation (FM)
 - Phase modulation (PM)
 - Pulse modulation
 - Amplitude-shift keying (ASK)
 - Phase-shift keying (PSK)
 - Frequency-shift keying (FSK)
- Online Material:** A significant amount of course-related material may be found on the class website. It is the responsibility of the student to be cognizant of this information; thus, the student should visit the website frequently. Additionally, important class announcements will be sent by email to the official class email list. This list sends mail to university Official Student Email addresses. It is the responsibility of the student to configure his or her Official Student Email appropriately (including any desired forwarding to other addresses), and to read email frequently.

SYLLABUS—CLASS POLICY

- Expectations: The instructor expects the student to:
- Attend** each class!
 - Read** the slides and suggested books!
 - Work** all the homeworks!
- Attendance:
- Class roll will be taken randomly.
 - A student is considered present for class if the student remains in class for the *duration* of the class.
 - If an absence from class is unavoidable due to some situation beyond a student's control, the student should advise the instructor *before* a class is missed.
 - Although attendance is not a formal component of the course grade, attendance records will be reported along with course grades.
- Homework:
- Homework will be assigned each Thursday and will be due the following Thursday, unless otherwise specified.
 - Homework must be turned in at the *beginning* of the class period in which it is due.
 - No late homeworks will be accepted *for any reason*.
- Exams/Homeworks:
- After a graded exam/homework has been returned to a student, the student may wish to dispute the score:
 - ◆ In the case of an arithmetic error in the tallying of the score from the individual sections, the error will be corrected.
 - ◆ In all other cases, the student may request that the exam/homework be regraded. During exam/homework regrading, the *entire* exam/homework will be regraded, which may result in higher *or* lower scores on *each and every* section of the exam/homework. Thus, if you submit your exam/homework for regrading simply to “quibble” about a few points you “unjustly lost” on a certain exam problem, you should be aware of the possibility that you may lose any points which you had “unjustly gained” through oversight on other problems.
 - ◆ In all cases, *all* requests for regrading must be made within *one week* following the date the graded exam/homework was returned to the student.
 - ◆ An exam/homework will be regraded *only once*.
- Grading: Final course grades will be based on homework and exams with weighting as described below.
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| Homework Assignments | 10% |
| Exam I | 25% |
| Exam II | 25% |
| Final Exam | 40% |