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# ECE421-001: Telecommunications I

## ECE421: Telecommunications I, Fall 2020

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### Time and Location:

TR 11:00 AM -- 12:15 PM on Zoom

[Zoom link for lectures \(https://us02web.zoom.us/j/86768694441?pwd=d0l5REhhWDdQWVlFZ3JUWk5MQkpWQT09\)](https://us02web.zoom.us/j/86768694441?pwd=d0l5REhhWDdQWVlFZ3JUWk5MQkpWQT09)

Meeting ID: 867 6869 4441

Passcode: QPSK

Please join the zoom meeting five minutes before the start of the lecture time (at 10:55 AM).

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### Instructor:

Ali Pezeshki

Contact Information: <Ali.Pezeshki@colostate.edu>

Office Hours: Tuesdays 3:30 PM -- 4:30 PM on Zoom

[Zoom link for Pezeshki's office hours \(https://us02web.zoom.us/j/88336975877?pwd=S2tHNkN2QVgvd1hTWlHCdDFvM3Qydz09\)](https://us02web.zoom.us/j/88336975877?pwd=S2tHNkN2QVgvd1hTWlHCdDFvM3Qydz09)

Meeting ID: 883 3697 5877

Passcode: QPSK

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### Textbook:

B. P. Lathi and Zhi Ding, "Modern Digital and Analog Communication Systems," Fifth Edition, Oxford University Press, Feb. 2018, ISBN 9780190686840.

### Additional Reference (not required):

Simon Haykin and Michael Moher, "Introduction to Analog & Digital Communications," 2nd Edition, John Wiley & Sons. 2007.

### Exam Calendar:

- Midterm Exam: Oct. 15, 2020, Take-Home.
- Final Exam: Dec. 15, 2020, Take-Home.

### Grading:

- Homework: 20%
  - Midterm Exam: 40%
  - Final Exam: 40%
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### Course Topics:

- Introduction
- Amplitude Modulation
- Angle Modulation
- Sampling, Quantization and Pulse Modulation
- Digital Baseband and Passband Data Transmission
- Noise in Analog Communications
- Noise in Digital Communications
- Error Probability Calculations

## Course Summary:

Date	Details
Tue Sep 8, 2020	 <a href="https://colostate.instructure.com/courses/109598/assignments/1342479">Homework 1</a> due by 11:59pm ( <a href="https://colostate.instructure.com/courses/109598/assignments/1342479">https://colostate.instructure.com/courses/109598/assignments/1342479</a> )

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