

FA-ECE-421-001. Telecommunications I

ECE421: Telecommunications I, Fall 2021

Time and Location:

TR 11:00 AM -- 12:15 PM, Natural Resources 109

Instructor:

Ali Pezeshki

Contact Information: <Ali.Pezeshki@colostate.edu>, Tel. 970-791-3242, Engr. C103F

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

[Zoom link for Pezeshki's office hours](https://us02web.zoom.us/j/86462399535?pwd=OHpOVdJQOGFIK2ZITFBpRIA1MG9mZz09) (https://us02web.zoom.us/j/86462399535?pwd=OHpOVdJQOGFIK2ZITFBpRIA1MG9mZz09)

Meeting ID: 864 6239 9535

Passcode: qpsk

Textbook:

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

Additional Reference (not required):

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

Exam Calendar:

- Midterm Exam: Oct. 14, 2021
- Final Exam: Dec. 14, 2021, 6:20pm-8:20pm

Grading:

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

- Introduction (ch. 1)
 - Amplitude Modulation (ch. 3)
 - Angle Modulation (ch. 4)
 - Pulse Modulation (ch. 5)
 - Baseband Data Transmission (ch. 6)
 - Digital Band-pass Modulation (ch. 7)
 - Random Signals and Noise (ch. 8)
 - Noise in Analog Communications (ch. 9)
 - Noise in Digital Communications (ch. 10)
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Use of Online Homework Helper Sites:

Online “homework helper” sites including, but not limited to Chegg, NoteHall, Quizlet, and Course Hero, Koofers, are meant as study resources to help students better understand basic concepts covered in their courses. They are not intended to do homework/exams from this course for you. The use of such online resources is not permitted for solving homework and exam problems in this course. Your homework and exam submissions must be your independent work. In addition, you are not allowed to post or share homework problems and or exams (in full or in part) from this course to such websites.

Important Information on COVID-19 Required Reporting

All students are required to report any COVID-19 symptoms to the University immediately, as well as exposures or positive tests from a non-CSU testing location. If you suspect you have symptoms, or if you have been exposed to a positive person or have tested positive for COVID, you are required to fill out the COVID Reporter (<https://covid.colostate.edu/reporter/> (<https://covid.colostate.edu/reporter/>)). Do not ask your instructor to report for you. If you do not have internet access to fill out the online COVID-19 Reporter, please call (970) 491-4600. For the latest information about the University’s COVID resources and information, please visit the CSU COVID-19 site: <https://covid.colostate.edu/> (<https://covid.colostate.edu/>).