

# ECSE 408. COMMUNICATION SYSTEMS.

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Credits: 4

Offered by: Electrical & Computer Engr (Faculty of Engineering)

Terms offered: Fall 2025

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## Description

Communication system models; AM and FM modulation, performance of AM and FM systems in noise; sampling, FDM and TDM multiplexing systems; baseband and pass-band digital transmission over noisy band-limited channels, digital modulation and detection techniques and their quantitative performance; concepts of entropy and channel capacity, selected data compression and error-control coding techniques. Illustrative examples taken from subscriber loop telephone systems, evolution of internet modems and wireless cellular phone standards. Lab work involving measurement of the performance of AM and FM systems with noise, digital modulation techniques and spectra, experiments with basic error control coding systems.

- Prerequisite(s): ECSE 205 and ECSE 308
- Restriction(s): Not open to students who have taken ECSE 411.
- (3-4-5)

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