

# ECSE 623. DIGITAL COMMUNICATIONS 2.

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Credits: 4

Offered by: Electrical & Computer Engr (Graduate Studies)

This course is not offered this catalogue year.

## Description

Transmission over fading channels: channel characterization and models, time and frequency selectivity, diversity and receiver techniques, outage, channel information and adaptive, opportunistic transmission strategies. Multi-carrier transmission techniques: OFDM and spread-spectrum. Multi-dimensional transmission techniques: MIMO, diversity and multiplexing trade-off, space-time codes. Cooperative communications. Iterative decoding, turbo coding/decoding, LPDC codes, graph-based codes.

- (3-0-9)
- Prerequisites: ECSE 510, ECSE 521

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