

ECE 310 Digital Signal Processing 1

Overview

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Dr. Gebali Research Interests

- High Altitude Platforms (HAP) communications & Security
- Low-Earth Orbit (LEO) satellite communications & Security
- Cryptographic and AI accelerators
- ML & DL zero-trust security & computer vision

ECE 448/548 Grading Scheme

Check course outline at Brightspace

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Course Topics

- 1 Signals
- 2 Sinusoidal Signals
- 3 Sampling & Aliasing
- 4 Discrete-Time Systems
- 5 Discrete-Time Fourier Transform (DTFT)
- 6 Discrete Fourier Transform (DFT)
- 7 z-Transform
- 8 Digital Filters
- 9 Discrete-Time Systems Analysis