

# ECE 448/548 Cyber-System Security

## Overview

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## Course Instructor

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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 outlines at [Brightspace](#)

Check course outlines at CourseSpaces

## Course Topics

- 1 Introduction to Hardware Security
- 2 VLSI technology
- 3 Abstract algebra (finite fields)
- 4 Physically unclonable functions (PUF)
- 5 Hardware Trojans (HT)
- 6 IC/IP Security
- 7 Secure Processor Design
- 8 Side-Channel Attacks (SCA)
- 9 Integrated-Circuit Authentication