



Be The Difference.

## EECE 5840 – Computer Security

Fred J. Frigo, Ph.D.

Spring 2024

### Course Description:

Introduction to the important issues in computer security, including cryptography, program security, operating system security, database security, and network security. Also discusses the legal, ethical and privacy issues that arise in computer security. Programming projects enable the student to practice implementing many of the security measures discussed in class.

### Course Learning Outcomes:

We will explore various cybersecurity exploits & analyze strategies for the protection of computer systems and information from harm, theft, and unauthorized use. The goal of homework and projects will be to gain a deeper understanding of the ideas and concepts of this course through actual implementation in such areas as: network configuration, TCP/IP, firewalls, encryption, certificates, SYSLOG, OpenSSL, TLS, SPLUNK, Wireshark, etc.

Additional expected learning outcomes for graduate students are to analyze and think critically to apply knowledge, skills, and values appropriate to Computer Security. In addition, graduate students should master new and various methods and technologies at an advanced level.

### Location & Schedule:

Class meets in EHALL 423 on Tuesdays & Thursdays: 5:00pm-6:15pm

### Grading:

Homework and Projects: 60%

Mid-term exam: 20%

Final exam: 20%

### Recommended Text:

Computer Security - Principles and Practice – 4<sup>th</sup> Edition

By: William Stallings; Lawrie Brown Publisher: Pearson

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### Other Notes:

Students are required to comply with all policies outlined in the Graduate Bulletin, including the Marquette University Honor Code and Honor Policy.

### Office Hours:

By appointment; using Microsoft Teams or in-person Haggerty Hall – Room 235

### Contact Info:

Email: [Frederick.Frigo@marquette.edu](mailto:Frederick.Frigo@marquette.edu)