

Masters of Science – Cybersecurity

2022-2023

REQUIREMENTS

Admission Requirements:

In addition to the requirements listed in the Graduate Admission section, candidates must satisfy all of the following:

1. **Grade point average of 3.0** (B) from all undergraduate coursework or a satisfactory score on the GRE or GMAT test
2. **Resume** detailing work experiences and accomplishments
3. **Personal statement** of career goals and background experiences, including an explanation of how this program will help achieve educational and professional objectives
4. **Recommendations:** Two professional or academic recommendations received online, addressing the candidates potential for graduate study completion. You will provide the emails of two references in your account at www.gvsu.edu/gradapply, and they will be sent a link to fill out for their online recommendation

Degree Requirements:

All candidates for the degree must complete 33-34 credits, as indicated:

Foundation Requirements (0 - 4 credits)

CIS 500 - Fundamentals of Software Practice
CIS 511 - Networking Fundamentals

Core Requirements (21 credits)

CIS 518 - Secure Software Engineering
CIS 555 - Applied Cryptography
CIS 615 - Information Security Principles
CIS 616 - Data Security and Privacy
CIS 617 - Digital Forensics and Investigations
CIS 619 - Data Analytics for Cybersecurity
CIS 654 - Computer Networking

Elective Requirements (3 - 9 credits)

Any 500- or 600-level CIS course (other than Foundations courses) can be used as an elective toward the M.S.- Cybersecurity degree. The number of electives needed depends on what capstone option is chosen and if foundation courses are waived.

Capstone (3 or 6 credits)

Each candidate must complete either the project course, or the thesis sequence. Please contact the graduate program director one semester prior to starting any of these.

Thesis sequence:

CIS 690 - Thesis Research Preparation
CIS 695 - Master's Thesis

Project course:

CIS 693 - Master's Project

SUGGESTED SEQUENCES

Two suggested course sequences are provided below. These are suggestions only – work with your advisor to design a schedule to fit your specific needs.

Students starting in Fall

First Year

Fall

CIS 500	Fundamentals of Software Practice
CIS 511	Networking Fundamentals
CIS 615	Information Security Principles
	Elective class

Winter

CIS 616	Data Security and Privacy
CIS 555	Applied Cryptography
CIS 654	Computer Networking

Second Year

Fall

CIS 518	Secure Software Engineering
CIS 619	Data Analytics for Cybersecurity
	Elective class

Winter

CIS 617	Digital Forensics and Investigations
CIS 693	Masters Project

Students starting in Winter

First Year

Winter

CIS 500	Fundamentals of Software Practice
CIS 511	Networking Fundamentals
CIS 616	Data Security and Privacy
CIS 654	Computer Networking

Fall

CIS 518	Secure Software Engineering
CIS 615	Information Security Principles
	Elective class

Second Year

Winter

CIS 555	Applied Cryptography
CIS 617	Digital Forensics and Investigations
	Elective class

Fall

CIS 693	Masters Project
CIS 619	Data Analytics for Cybersecurity