The MS in Cybersecurity is intended for students who wish to specialize in the security aspects of Information Technology. Students will learn how to design, implement and maintain software systems designed to support security policy and network architecture consistent with mitigating risk and preventing hostile attacks.

Concentrations

Computer Security Concentration

The Computer Security concentration focuses on fundamental security topics that arise in the design, analysis, and implementation of distributed systems. This concentration provides in-depth coverage of the theory and application of identity, authentication, access control, auditing, assessment & prevention of software vulnerabilities, and cryptography, in the context of modern enterprise-scale & web-based systems.

Networking and Infrastructure Concentration

The Networking and Infrastructure concentration focuses on the network infrastructure and network security management aspects of information security. This concentration will provide in-depth coverage of network security infrastructure technologies such as firewalls, Virtual Private Networks (VPN), Intrusion Detection and Prevention Systems (IDS/IPS), vulnerability assessment tools, as well as overall security infrastructure engineering and design.

Governance, Risk Management and Compliance Concentration

The Governance, Risk Management, and Compliance concentration focuses on enterprise-level information security risk management, IT audit, and regulatory compliance. This cross-disciplinary concentration focuses on how to:

- develop an information security program;
- assess security risk in business processes;
- identify and implement a system of controls for security governance and regulatory compliance;
- plan and conduct IT audits; and
- develop business continuity and disaster recovery plans.

Degree Requirements

No Introductory Course may be substituted for any other course at any level.

Concentration Requirements

Concentrations, tracks and specializations provide focus to the degree. In addition to any degree requirements, students are required to choose one of the following:

- Computer Security Concentration, Cybersecurity (MS) Online (https://catalog.depaul.edu/programs/cybersecurity-online-ms/computer-security-concentration-cybersecurity-online-ms/)
• Governance, Risk Management and Compliance Concentration, Cybersecurity (MS) Online (https://catalog.depaul.edu/programs/cybersecurity-online-ms/governance-risk-management-compliance-concentration-cybersecurity-online-ms/)

• Networking and Infrastructure Concentration, Cybersecurity (MS) Online (https://catalog.depaul.edu/programs/cybersecurity-online-ms/networking-infrastructure-concentration-cybersecurity-online-ms/)