Our Master of Science in Information Assurance and Cybersecurity combines an understanding of information security technology with relevant knowledge from law, the social sciences, criminology, and management. The MS program is designed for working professionals and recent graduates who want knowledge they can apply in their workplaces to assess and manage information security risks effectively.

**Learning Outcomes:**

- Build core knowledge surrounding computer system security and network security practices
- Plan and implement security strategies to reduce risk and enhance protection of information assets and systems
- Understand legal and ethical issues associated with information security, privacy, and digital rights.
- Enhance communication skills for effective interaction with corporate management on information assurance/cybersecurity-related issues.

**Program Requirements**

**General Requirements**

- **Foundations**
  - IA 5010 Foundations of Information Assurance 4

- **Technical Courses**
  - Complete 8 semester hours from the following: 8
    - IA 5120 Applied Cryptography
    - IA 5130 Computer System Security
    - IA 5150 Network Security Practices
    - IA 6120 Software Security Practices

- **Contextual Courses**
  - Complete 8 semester hours from the following: 8
    - IA 5200 Security Risk Management and Assessment
    - IA 5210 Information System Forensics
    - IA 5240 Cyberlaw: Privacy, Ethics, and Digital Rights
    - IA 5250 Decision Making for Critical Infrastructure

- **Capstone**
  - IA 7900 Capstone Project/Seminar 4

- **Electives**
  - Complete 8 semester hours from the following: 8
    - IA 5040 Introduction to Cyberspace Programming
    - IA 5050 Data Mining in Cyberspace
    - IA 5120 Applied Cryptography
    - IA 5130 Computer System Security
    - IA 5150 Network Security Practices
    - IA 5200 Security Risk Management and Assessment
    - IA 5210 Information System Forensics
    - IA 5240 Cyberlaw: Privacy, Ethics, and Digital Rights
    - IA 6120 Software Security Practices

**Program Credit/GPA Requirements**

- 32 total semester hours required
- Minimum 3.000 GPA required

1 This course can only be taken for credit if the student has NOT also taken Network Security Practices (IA 5150). These courses cannot both be taken for credit.