The Master of Science in Cybersecurity program is a fully online program within the School of Computing and Engineering. It is a technical degree program designed to prepare a wide range of students to operate as cyber defenders for present-day and future information systems and networks.

The 30-credit Master of Science in Cybersecurity includes up-to-date security knowledge and skills in demand in today's workplace. These include principles of risk management, software security, cloud security and resilient systems. Both security theory and hands-on skills are developed, utilizing current security tools in cloud and on-ground environments. The coursework also embodies the knowledge units set forth by the National Centers of Academic Excellence in Cyber Defense Education (CAE-CDE). Degree coursework culminates with a capstone project that challenges students to examine the architecture of a complex system, identify vulnerabilities and determine the specific security defenses that should be employed.

For individuals working in the field seeking to fine tune their current skill sets without immediately pursuing a complete degree, you may take any of the 1-credit courses, subject to program director approval. Any course taken will count as a stackable credential.

**Student Learning Outcomes**

The mission of the MS in Cybersecurity program is to equip students to succeed as effective cyber defenders in a rapidly changing business and technology environment. Specific objectives include:

a. **Train** students to be able to apply risk management concepts to cybersecurity challenges.

b. **Enable** students to use and evaluate software to manage cybersecurity risk.

c. **Create** the next generation of cloud native security professionals.

d. **Enable** students to design, build and operate resilient systems that meet business objectives.

**Admission**

To qualify for admission into the MS Cybersecurity program, a student must have completed a bachelor's degree from a regionally accredited institution and meet one of the following criteria:

a. Have an undergraduate degree in computer engineering, software engineering or computer science; OR

b. Have an undergraduate degree in another area with applicable coursework or certificates in network technology, database management and programming; OR

c. Have at least 2 years of applicable work experience or military service including experience with network technology, database management and programming; OR

d. Receive approval from the program director