

MASTER OF SCIENCE IN CYBER SECURITY
Dr. Matthew D. Gonzalez, Program Director

Mission

The mission of the Master of Science in Cyber Security is to educate graduates to make a significant contribution, with a commitment toward to moral purpose and productive work, within the information security community in support of individual, corporation, governmental services and organizational strategic goals.

Program Highlights

The Master of Science in Cyber Security program is built to expand upon the undergraduate Cyber Security program, while providing bachelor's degree prepared individuals the opportunity to gain additional knowledge, skill and experience, and establish competency in the field of Cyber Security at the graduate level.

- Graduates will be prepared to contribute to and lead others in quickly evolving areas of Cyber Security, including strategy, planning and program management.
- The Cyber Security program covers seven main categories of cyber operations, in alliance with The National Cyber Security Workforce Framework. Graduates will be prepared to conduct the following Cyber Security roles in organizations:
(1) securely provision, (2) operate and maintain, (3) protect and defend, (4) investigate, (5) collect and operate, (6) analyze, and (7) oversight and development.
- Graduates will focus strongly on the oversight and development of Cyber Security initiatives preparing them for a variety of managerial and leadership careers in the rapidly growing industry of Cyber Security.
- The National Initiative for Cyber Security Careers and Studies indicates immediate demand for this profession. Graduates can anticipate employment in corporate, government and military organizations.

Admission Requirements

Applicants to the program must have completed a Bachelors degree in Business, Information Technology, or a related Information Sciences field at a regionally accredited institution of higher education. Technological literacy gained from prior coursework is imperative for success in the program. No entrance examinations are required, as proof of prior performance and recommendations are used as entrance assessments.

What You Will Study

The Master of Science in Cyber Security will provide leaders of public and private organizations with the ability to:

1. Strategize the development of security programs, policies and information management techniques.
2. Support the mission of organizations through program and strategic level planning.
3. Analyze the demands of systems security and practiced methodologies for protecting data integrity and confidentiality.
4. Synthesize a variety of challenging organizational, legal, and technological concepts in relation to Cyber Security at a Program level.
5. Exhibit security theories and applications learned throughout the MSCS degree, by developing a strategic proposal demonstrating a security and information management strategy.

Degree Requirements

The graduate program consists of 30 credit hours.

Master of Science in Cyber Security -- Curriculum	
Course	Credits
CYBR 610: Cyber Operations Management	3
CYBR 615: Strategic Cyber Intelligence	3
CYBR 620: Legal Issues in Cyber Security	3
CYBR 625: Cyber Psychology	3
CYBR 630: Offensive and Defensive Strategies	3
CYBR 635: Security and Information Data Analytics	3
CYBR 640: Strategic Investments in Information Security	3
CYBR 645: Enterprise Infrastructure Planning & Safeguarding	3
CYBR 650: Cyber Security Policy Implementation	3
CYBR 660: Capstone: Practical Applications in Security	3
Total Credits	30