

PROGRAM FOCUS

CONTENT / COURSES

TIME TO COMPLETION

AVAILABLE SPECIALIZATIONS

OUTCOMES

MSCY

Cybersecurity Professional/Leadership

10 COURSES (30 credits):

- 1 Cybersecurity Foundation Course
- 4 Cybersecurity Core Courses
- 4 Specialization Courses
- 1 Cybersecurity Capstone

FOUR (4) SPECIALIZATION AREAS:

- All specializations unique to the MSCY and focused on cybersecurity

~14-21 months

FOCUSED AREAS OF STUDY:

Four specializations focused on specific cybersecurity fields.

Set of four courses in a single, focused area.

CYBERSECURITY SPECIALIZATIONS:

1. Finance and Banking
2. General Cybersecurity
3. Healthcare
4. Public Service and Defense

- Program focused on preparing for a career in cybersecurity
- CISSP holders skip one course. For non-CISSP holders, the first course addresses key knowledge areas covered by the certification*
- Outcomes focused on the skills and knowledge required to excel in the high-demand area of cybersecurity and mitigate shortage of cyber personnel in both the public and private sectors
- Evaluate an organization's maturity in protecting its information infrastructure
- Explain concepts and arguments associated with cybersecurity
- Manage legal, ethical, and security risks in technology-based systems
- Evaluate the scope and impact of emerging technologies in cybersecurity on a local and global scale
- Formulate solutions to cybersecurity problems
- Hands-on experience, including guidance, in a virtual lab environment

**Specific program courses address certification areas, but do not transfer into a certification.*

MSTM

Leadership/Management of IT

10 COURSES (30 credits):

- 1 Tech Management Foundation Course
- 4 Tech Management Core Courses
- 4 Specialization Courses
- 1 Tech Management Capstone

SIX (6) SPECIALIZATION AREAS:

- 1 specialization shared with MSIT
- 1 specialization shared with MBA

~15-21 months

FOCUSED AREAS OF STUDY:

Six specializations focused on technology management and leadership.

Set of four courses in a single, focused area.

TECHNOLOGY MANAGEMENT SPECIALIZATIONS:

1. Asset Management (IAITAM ONLY)
2. Cybersecurity Management
3. Data Science Management
4. General Management
5. Information Technology Management
6. Project and Program Management

- Technology management program
- No certification courses/alignment
- Outcomes focused on mid/senior-level management of IT teams
- Demonstrate applied knowledge of technical management and leadership
- Manage IT systems and services to optimize operations
- Justify the fiscal resources required to meet the strategic and operational technology needs of the enterprise
- Interpret technical concepts in the optimal style and format for the audience
- Incorporate strategic, operational, and project planning and management into the implementation of IT solutions

MSIT

Application/IT Function

10 COURSES (30 credits):

- 1 IT Foundation Course
- 4 IT Core Courses
- 4 Specialization Courses
- 1 IT Capstone

FOUR (4) SPECIALIZATION AREAS:

- 1 specialization shared with MSTM

~16-21 months

FOCUSED AREAS OF STUDY:

Four specializations focused on information technology management, including cybersecurity knowledge needed for IT professionals.

Set of four courses in a single, focused area.

IT MANAGEMENT SPECIALIZATIONS:

1. Information Technology Project Management
2. Cloud and Networking Infrastructure Management
3. Network Risk Management and Control
4. General Information Management

- Applied information technology program
- Aligned to professional certifications
- Certification content in each specialization (CISCO CCNA, Network+, Security+, CRISC, PMP, and general CRISC)*
- Outcomes focused on students with more of a technical background
- Demonstrate an applied knowledge of IT industry standards, resources, and techniques
- Administer IT systems and services to optimize operations
- Conduct technical analysis, design, response, and documentation to support enterprise operations
- Incorporate project management methodology into planning, development, and implementation of IT solutions

**Specific program courses address certification areas, but do not transfer into a certification.*