INFORMATION SECURITY AND CYBER LEADERSHIP, M.S.

This program educates a competent workforce with sophisticated communication, information, people, and technology skills to meet the demands of both the public and private sectors. The curriculum covers the knowledge and skills required for professionals to better understand and integrate the critical human and sociotechnical aspects of professional responsibilities associated with the complicated technology planning, applications, and management in cyber environments. Furthermore, the program fosters leadership qualities that allow students to step into administrative positions in cybersecurity and human-system integration environments.

Learning Outcomes

- Analyze human information behavior and information security phenomena in cyber environments
- Explain the structure of a cybersecurity system, implement the system, handle the system operations, and evaluate the system efficiency
- Strategically analyze the external and internal environments of an organization to create and facilitate a human-systems integration process
- Create teams for human-systems integration environments and facilitate team communication and coordination
- Develop information policies and regulations for human-systems integration and cyber information security system environments

Degree Requirements (30 Hours) Required Courses (12 hours)

Substitutions must be specifically approved by the student's advisor and graduate director.

| Course | Title | redits |
|------------------------------|--|--------|
| ISCI 795 | Special Topics in International Information Issue (Information Security, Ethics, and Leadership in Cyber Environments) | s 3 |
| ISCI 768 | Challenges in Information Intensive Organization Administration | 3 |
| Select one of the following: | | |
| ISCI 795 | Special Topics in International Information Issue (Cyber Security and Information Science) | S |
| ISCI 787 | Seminar in Applied Information Systems for Information Specialists | |
| Select one of the following: | | 3 |
| ISCI 794 | Internship in Library and Information Science | |
| ISCI 798 | Specialist Project Preparation | |
| Total Credit Hours | | |

Elective Courses (18 hours)

Substitutions must be specifically approved by the student's advisor and/or graduate director.

| Course | Title | Credits |
|----------|--------------------------------|---------|
| ISCI 534 | Knowledge Discovery Techniques | 3 |
| ISCI 560 | Data Visualization | 3 |

| ISCI 709 | Fundamentals of Data and Digital Communications | 3 |
|----------|---|-----|
| ISCI 726 | Knowledge Management for Library and Information Professionals | 3 |
| ISCI 770 | Design and Management of Databases | 3 |
| ISCI 772 | Strategic Intelligence for Information Professionals | 3 |
| ISCI 776 | Web Technologies for Information Specialists | 3 |
| ISCI 780 | Information Networks | 3 |
| ISCI 788 | Implementing Data and Digital Communications | 3 |
| ISCI 795 | Special Topics in International Information Issues (Cyber Security and Information Science) | 3 |
| ISCI 795 | Special Topics in International Information Issues (Information and Communication Needs and Assessment) | 3 |
| ISCI 796 | Independent Study in Library and Information Science | 1-6 |
| ISCI 806 | Communication Processes and Information- Seeking Behavior | 3 |