

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

1. Analyze human information behavior and information security phenomena in cyber environments
2. Explain the structure of a cybersecurity system, implement the system, handle the system operations, and evaluate the system efficiency
3. Strategically analyze the external and internal environments of an organization to create and facilitate a human-systems integration process
4. Create teams for human-systems integration environments and facilitate team communication and coordination
5. 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	Credits
ISCI 795	Special Topics in International Information Issues (Information Security, Ethics, and Leadership in Cyber Environments)	3
ISCI 768	Challenges in Information Intensive Organization Administration	3
Select one of the following:		3
ISCI 795	Special Topics in International Information Issues (Cyber Security and Information Science)	
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		12

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