

INFORMATION SECURITY AND CYBER LEADERSHIP, CERTIFICATE

Industry data indicates that pathways to cybersecurity jobs are changing. More than half of cybersecurity professionals start their careers in another field and then transfer to cybersecurity. In fact, in terms of diversity and inclusion, women, Black/African American and Hispanic/Latinx cybersecurity professionals are more likely to come from a non-technical background into the field of cybersecurity. This program 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. An additional aim is to foster leadership qualities that allow students to step into administrative positions in cybersecurity and human-technology integration environments.

Learning Outcomes

1. Explain the structure of a cybersecurity system, implement the system, handle the system operations, and evaluate the system efficiency
2. Strategically analyze the external and internal environments of an organization to create and facilitate a human-systems integration process
3. Create teams for human-systems integration environments and facilitate team communication and coordination