CYBERSECURITY AT WESTERN KENTUCKY UNIVERSITY

Dr. Ray Blankenship and Dr. Mark Ciampa

MS CYBERSECURITY DATA ANALYTICS

• Fall 2021

Cybersecurity Data Analytics Certificate Data Analytics Certificate Cybersecurity as a concentration in the MBA Program

• Fall 2022

MS Cybersecurity Data Analytics

Concentrations

Local Government Administration Healthcare Administration Organizational Communication Supply Chain Management Interdisciplinary



INTENDED AUDIENCES

• Designed for 2 primary audiences:

Entry-level managers who work in critical infrastructure positions (communications, chemical, commercial facilities, critical manufacturing, dams, defense industrial base, emergency services, energy, financial, food & agriculture, government facilities, healthcare & public health, information technology, nuclear reactors & materials & waste, transportations systems, and water)

Entry-level cybersecurity workforce through applying data analytics to information security issues



PROGRAM FOCUS

Gordon Ford College of Business Program

Use of Data Analytics to detect and defend against cybersecurity attacks Create and analyze cybersecurity workplace policies Understand how to extract and transform data Use data visualization to communicate cybersecurity analysis



MS HOMELAND SECURITY

• Fall 2017

Cybersecurity added as a concentration in Homeland Security Sciences



INTENDED AUDIENCES

- Developed to satisfy the demand for cybersecurity professionals in and out of the state by providing a graduate-level, advanced study path for:
 - System security professionals
 - Site administrators
 - Practitioners with responsibility for securing computer network infrastructure and related technologies



PROGRAM FOCUS

Ogden College of Science and Engineering Program

Only Homeland Security program in Kentucky focused on the science behind security

Strong experiential learning component including laboratory and community engagement

Graduates are prepared for the Certified Ethical Hacker certification exam

Prepares students to understand and demonstrate

Current security threats and recommendations for countermeasures

Hacking and penetration techniques using appropriate tools

Countermeasures to social engineering and other types of attacks

