CYBERSECURITY DATA ANALYTICS, MASTER OF SCIENCE (0502)

Program Coordinator

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This program is the study of cybersecurity defenses using data analytics to support the principles of data confidentiality, integrity, and availability. In this program, students will learn to defend proactively and continuously improve the enterprise's security with an emphasis on using data analytics. Students will learn about the latest techniques in data management, data mining models, and data visualization. Students will also learn about cybersecurity policies and compliance issues from an information assurance and risk management perspective.

Concentrations

- Local Government Administration (CDLG)
- Organizational Communication (CDOC)
- Supply Chain Management (CDSC)
- · Interdisciplinary Studies (CDIS)

Program Admission

Applicants must have completed an introductory statistics course and an intermediate to advanced spreadsheet course prior to enrolling in the certificate program.

Graduate Studies Admission

Please refer to the admission section (http://catalog.wku.edu/graduate/ admission/) of this catalog for Graduate Studies admission requirements.

Program Requirements (30 hours)

This program consists of twenty-four hours of core classes and six hours from one of the concentrations listed below.

Code	Title	Hours
Required Courses		
CYSA 520	Principles of Cybersecurity for Data Analytics	3
CYSA 522	Cybersecurity Risk and Compliance	3
CYSA 524	Cybersecurity Orchestration Using Data Analytics	3
CYSA 526	Enterprise Cybersecurity Platforms	3
BDAN 513	Contemporary Business Analytics	3
BDAN 515	Data Management	3
BDAN 517	Predictive Analytics	3
BDAN 519	Visualization and Decision Making	3
CYSA 599	Cybersecurity Data Analytics Portfolio	0
Select a concentration		6
Total Hours		30

Local Government Administration Concentration

Additional coursework may lead to a certificate, see Local Government Administration Certificate (1745) in the Graduate Catalog.

Code	Title	Hours
PS 526	Local Government Administration	3
PS 554	Cross-Sector Collaboration & Conflict	3
Total Hours		6

Organizational Communication Concentration

Additional coursework may lead to a certificate, see Communication in Organizations Certificate (0471) in the Graduate Catalog.

Code	Title	Hours
Select 6 hours in Comm	6	
COMM 561	Communication for Global Organizations	
COMM 568	Organizational Belonging and Engagement	
COMM 571	Digital Communication for Organizational Success	
COMM 581	Applied Organizational Communication	
Total Hours		6

Total Hours

Supply Chain Management Concentration

Additional coursework may lead to a certificate, see Supply Chain Management Certificate (1772) in the Graduate Catalog.

Code	Title	Hours
Select 6 hours in Supply Chain Management		6
MGT 576	Supply Chain Management	
MGT 583	Procurement Management	
MGT 584	Supply Chain Analytics	
Total Hours		6

Interdisciplinary Studies Concentration

Code	Title	Hours
Select 6 hours from the following		
COMM 553	Health Communication Campaigns	
COMM 561	Communication for Global Organizations	
COMM 568	Organizational Belonging and Engagement	
COMM 571	Digital Communication for Organizational Success	
COMM 581	Applied Organizational Communication	
COMM 590	Intercultural Communication Strategies	
PS 526	Local Government Administration	
PS 528	Civic Engagement and E- Governance	
PS 520	Elements of Public Administration	
PS 550	Cultural Competencies for Public Administrators	
MGT 576	Supply Chain Management	
MGT 583	Procurement Management	
MGT 584	Supply Chain Analytics	
With approval from the Program Coordinator, students may request alternate courses for their program to reflect professional interests.		

Total Hours

6