

CYBERSECURITY DATA ANALYTICS, MASTER OF SCIENCE (0502)

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)
- Healthcare Administration (CDHA)

Program Admission

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

Applicants are encouraged to have completed an introduction to networking course with a C-grade or better or hold a current Security+ certification.

Graduate School Admission

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

Program Requirements (30 hours)

This program consists of twenty-one hours of core classes and nine hours from one of three 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
BDAN 513	Contemporary Business Analytics	3
BDAN 515	Data Management	3
BDAN 517	Predictive Analytics	3
BDAN 519	Visualization and Decision Making	3
Select a concentration		9
Total Hours		30

Local Government Administration Concentration

Code	Title	Hours
PS 526	Local Government Administration	3
PS 528	Civic Engagement and E-Governance	3
Advisor Approved Elective		3

PS 520	Elements of Public Administration	
PS 550	Cultural Competencies for Public Administrators	
PS 554	Cross-Sector Collaboration & Conflict	
PS 562	Public Policy Implementation & Evaluation	
Total Hours		9

Organizational Communication Concentration

Code	Title	Hours
Advisor Approved Electives ¹		
COMM 523	Health Communication	3
COMM 528	Communication in the Nonprofit Sector	3
COMM 553	Health Communication Campaigns	3
COMM 561	Multinational Organizational Communication	3
COMM 564	Crisis Communication	3
COMM 568	Communication and Organizational Identification	3
COMM 571	Organizational Communication in the Digital Age	3
COMM 578	Seminar in Interpersonal Communication	3
COMM 581	Applied Organizational Communication	3
COMM 586	Process of Group Communication	3
COMM 590	Intercultural Communication	3

¹ Not all courses will be offered online in a calendar year.

Health Care Administration Concentration

Code	Title	Hours
Advisor Approved Electives		
HCA 540	Health Care Organization and Management	3
HCA 541	Strategic Management & Marketing of Health Services	3
HCA 542	Health Care Human Resources Administration	3
HCA 545	Managerial Finance for Health Services	3
HCA 586	Health Economics & Policy	3