



MURRAY STATE
UNIVERSITY
School of Engineering

CYBERSECURITY AND NETWORK MANAGEMENT

Center for Academic Excellence in Cyberdefense; Essential Employability Qualities Certified



OUR PROGRAM

Achieve your dream of a career in technology with a degree in cybersecurity & network management. In Murray State's Program of Distinction, you'll gain the technical competency and problem-solving skills needed to succeed. Whether your interests are in cybersecurity, wireless communications or network and systems administration, you'll graduate ready to seize your opportunity to succeed in a field expected to grow 13 percent by 2026.

Cybersecurity and Network Management Career Outlook

- Cybersecurity Engineer
- Project Manager
- Cyber Analyst
- Cloud Infrastructure Administrator
- DevOps Engineer
- Network Engineer
- Virtualization Engineer
- Wireless Engineer

DEGREE TRACKS

Cybersecurity & Digital Forensics
Cloud & System Administration
Wireless

\$55-80K

graduate starting salary

80+ COMPANIES

visiting Murray State
to recruit our students

**Center for Academic
Excellence in
Cyberdefense (CAE-CD)**

recognized by the
DHS and NSA

COURSE REQUIREMENTS



University Studies37 Hours

Core Courses62 Hours

- CNM 100T - Transitions
- CNM 135 - Introduction to Network Technology
- CNM 232 - Operating Systems
- CNM 233 - Network Services
- CNM 241 - Networking Fundamentals
- CNM 251 - Principles of Information Security
- CNM 260 - DevOps Fundamentals
- CNM 320 - Introduction to Wireless Technology
- CNM 343 - Protocol Analysis
- CNM 353 - Network Security
- CNM 381 - Information Technology Project Management
- CNM 411 - Network Design, Operations, and Management
- CNM 440 - Information Assurance Policy and Management
- CNM 488 - Cooperative Education/Internship
- ACC 200 - Principles of Financial Accounting
- ACC 201 - Principles of Managerial Accounting
- EGR 140 - Introduction to Computing Applications in Science and Engineering
- FIN 330 - Principles of Finance
- SOE 350 - Technology Management
- SOE 399 - Professional Development Seminar I
- MKT 360 - Principles of Marketing

Technical Electives (including courses from the area of emphasis below)21 Hours

Wireless Communications

- CNM 302 - Internet of Things Networking
- CNM 322 - WLAN Administration
- CNM 323 - Wireless Mobile Internet
- CNM 324 - Wireless Communications Security
- CNM 421 - Advanced Wireless Communications

Network and System Administration

- CNM 345 - Linux Server Administration
- CNM 360 - Cloud Enterprise Systems
- CNM 444 - Enterprise Networks
- CNM 450 - Policy and Strategies
- CNM 517 - Systems Planning

Cybersecurity and Digital Forensics

- CNM 352 - System Security
- CNM 441 - Digital Forensics and Incident Response
- CNM 442 - Cybersecurity Operations
- CNM 518 - Threat Hunting and Security Operations Center Management