COUNTY COLLEGE OF MORRIS

CYBERSECURITY

Associate of Science

WHAT YOU WILL LEARN

Cybersecurity is one of the fastest growing and most critical fields in the world, protecting the technology, data, and systems that people and organizations rely on every day. The Associate of Science (A.S.) degree in Cybersecurity at CCM provides the technical knowledge and practical skills needed to protect computer systems, networks and digital information from cyber threats.

Students will gain a strong foundation in networking, programming, operating systems, cybersecurity defense and digital investigations. Graduates will be equipped to:

- apply programming and problem-solving techniques to secure data systems
- implement methods for safeguarding sensitive information
- integrate security principles into network system design
- use defensive techniques to secure systems against real-world threats
- utilize investigative methods to recover and analyze digital evidence after security incidents

The program prepares graduates for entry-level careers in cybersecurity, IT support, network administration and security operations, while also building a pathway toward certifications and continued education in the cybersecurity field.

continued on back...

CAREER OPPORTUNITIES

Associate degree:

- SOC Analyst
- Cybersecurity Specialist
- Cyber Crime Analyst
- Cyber Incident Responder

Bachelor's degree:

- IT Auditor
- Cybersecurity Consultant
- Penetration & Vulnerability Tester

CONTACT INFORMATION

Department of Information Technologies
973-328-5780
Emeriti Hall, Room 225

Professor Colleen Bamford
cbamford@ccm.edu

Kelly Wallace
kwallace@ccm.edu

For more information, scan the QR code.
214 Center Grove Road, Randolph, NJ 07869
973-328-5000 • www.ccm.edu

Revised 08/26

COUNTY COLLEGE OF MORRIS

WHY STUDY CYBERSECURITY AT CCM?

Launch your cybersecurity career with the knowledge, skills, and hands-on experience employers value. At CCM, you'll benefit from practical training, personalized instruction, and opportunities to build your professional network.

- Earn an Associate of Science (A.S.) degree that prepares you for entry-level cybersecurity positions and internship opportunities
- Build a strong foundation for transfer into bachelor's degree programs in Cybersecurity, Computer Science, and related fields
- Complete technical coursework to help you prepare for industry-recognized cybersecurity certifications
- Enhance your degree by earning the Information Security Certificate of Achievement in as little as one year
- Learn in small classes equipped with industry-standard software, where faculty provide individualized support and real-world insights
- Participate in cybersecurity competitions and join CCM's active Cybersecurity Club to expand your skills, experience, and professional connections beyond the classroom

CCM also helps you prepare for career success through the Office of Career and Transfer Services. You can explore internship opportunities, receive job search support, build a strong résumé, and strengthen your interviewing skills so you're ready to achieve your goals.

Learn more about Career Services:
https://www.ccm.edu/student-support/career-services/

WHERE YOU CAN GO!

Graduates with an A.S. in Cybersecurity also from CCM benefit from New Jersey's Statewide Transfer Agreement, so general education requirements will be waived at New Jersey public colleges and universities, allowing students to transfer in with junior standing. In addition, many out-of-state institutions also accept CCM credits.

CCM Cybersecurity students frequently transfer to:

In-State:

- Fairleigh Dickinson University
- Kean University
- Montclair State University
- New Jersey Institute of Technology
- Rowan University
- Rutgers University

Out of State:

- East Stroudsburg University, PA
- Rochester Institute of Technology, NY

CURRICULUM - 2505

GENERAL EDUCATION FOUNDATION (32/33 CR)

COMMUNICATION (6 CR)

English Composition I	ENG 111	3
English Composition II	ENG 112	3

MATH/SCIENCE/TECHNOLOGY (11/12 CR)

Precalculus**	MAT 123	4
Restricted Math Elective		3/4
Laboratory Science Elective		4

SOCIAL SCIENCE (3 CR)

Choose from General Education list (Social Science)		3

HUMANITIES (3 CR)

Choose from General Education list (Humanities)		3

SOCIAL SCIENCE OR HUMANITIES (3 CR)

Choose from General Education list (Social Science or Humanities)		3

GENERAL EDUCATION (6 CR)

Computer Science I	CMP 128	3
Fundamentals of Programming (Python)	CMP 131	3

CYBERSECURITY CORE (28 CR)

Computer Science II	CMP 129	3
Database Programming (SQL)	CMP 241	3
Foundations of Information Security	CMP 120	3
Network Security	CMP 124	3
Information Security Management	CMP 125	3
Ethical Hacking & System Defense	CMP 243	3
Linux	CMP 255	4
Digital Forensics I	CMP 160	3
Network Operating Systems	TEL 233	3

TOTAL **60**

Note: You must see a faculty advisor to plan your sequence of courses. For the most up-to-date listing of courses, see the Curriculum Checklist.