



Cybersecurity Technology

The Cybersecurity Technology program involves securing networks from the ground up. This process involves evaluating protocols, operating systems, hardware components, networking devices, and software tools to make a secure infrastructure. Students have the opportunity to learn in a hands-on environment with a wide variety of classes that will benefit them after completing their degree. We are also privileged to be a Cisco® Networking Academy Program and a CompTIA® Academy.

THE PROGRAM: Students can begin this program at the beginning of the fall or spring semesters. Completion of the two-year program leads to an Associates of Applied Science degree. As part of this degree program, students will also be required to **pass** the A+ and Security+ certifications. Students are also prepared to sit for the following non-required certifications: CCENT, Server+, Security+, MCP, Storage+, Cloud+, and Linux+. For the most current information, go to <http://ciscoserver.eastms.edu>.

ENTRANCE REQUIREMENTS: Minimum admission requirements: Obtain the following ACT scores: Math - 15, Reading - 15, Composite - 15. If a student doesn't have the ACT, they may use Accuplacer and they must score 75 on Reading Comprehension and 37 on Elementary Algebra.

THE FUTURE: Cybersecurity is an ever-evolving field of study. IT changes rapidly and requires students to be life-long learners with the ability to incorporate ever-changing technologies into their skill set. IT is one field of study which hasn't suffered any economic downturns. The need for well-trained IT personnel is present in every industry, from healthcare to manufacturing.

THE PAY: According to Mississippi Employment Security Commission 2017 data, students completing the EMCC Network Security Technology program should expect starting salaries ranging from \$50,000 to \$70,000 per year, depending on the field of specialization and the skill level of the student.

YOUR OPTIONS: Upon completion of the two-year curriculum, the student will be awarded an Associate of Applied Science degree in Cybersecurity Technology.

Required Technical Classes

IST 1124 – IT Foundations
IST 1134 – Fund. of Data Communications
IST 1143 – Principles of Information Security
IST 1163 – Database and SQL Concepts
IST 1224 – Network Components
IST 1433 – Web Dev using HTML & CSS
IST 1224 – Network Components
IST 1244 – Net. Admin. Using MSWin Server
IST 1633 – Wireless Security and Privacy
IST 1643 – Network Defense and Countermeasures
IST 2213 – Network Security Fundamentals
2 Security Electives
1 Career/Technical Electives

Security Electives

IST 1613 – Computer Forensics
IST 1623 – Linux/Unix Security
IST 2483 – Web Server
IST 2613 – Windows Security
OR any other as approved by the program advisor

Academic Electives

ENG 1113 – English Composition
SPT 1113 – Public Speaking
Humanities/Fine Arts Elective
Math/Science Elective
Social/Behavioral Science Elective
LLS 1711 – Job Search Skills **OR**
BOT 2183 – Career Readiness **OR**
IST 1273 – Career Development

Academic electives must be approved by program advisor

Career/Technical Electives

IST 1254 – Net. Admin. Using Linux
IST 1414 – Client-side Programming
IST 1514 – SQL Programming
IST 1533 – Database Architecture and Administration
IST 2224 – Network Planning & Design
IST 2234 – Network Implementation
IST 2254 – Adv. Net. Admin. Using MSWin Server
IST 2264 – Adv. Net. Admin Using Linux
OR any other as approved by the program advisor