



# CYBER SECURITY TECHNOLOGY

The Cyber Security 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. Our website can be found at [ciscoserver.eastms.edu](http://ciscoserver.eastms.edu).

**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 take the A+ and Security+ certifications. Students are also prepared to sit for the following non-required certifications: CCNA, 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 take the COMPASS and qualify with a Reading score of 73 and a Math score of 41.

**THE FUTURE:** Network Security 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 data, students completing the EMCC Network Security Technology program should expect starting salaries ranging from \$40,000 to \$45,000 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 Network Security Technology.

## CURRICULUM

### FIRST YEAR

#### First Semester

IST 1143 Principles of Information Security .....	3
IST 1134 Fund. of Data Communication.....	4
IST 1153 Web & Prog. Development Concepts .....	3
IST 1124 IT Foundations .....	4
*Humanities/Fine Arts Elective .....	3
<b>Total Hours.....</b>	<b>17</b>

#### Second Semester

IST 1244 Net. Admin. Using MS Win Server.....	4
IST 1224 Network Components .....	4
IST 1624 Network Security Fundamentals .....	4
*Social/Behavioral Science Elective .....	3
<b>Total Hours.....</b>	<b>15</b>
<b>Semester Hours.....</b>	<b>32</b>

### SECOND YEAR

#### First Semester

IST 1633 Wireless Security & Privacy .....	3
IST 1163 Concepts of Database Design.....	3
**Security Elective .....	3
ENG 1113 English Composition.....	3
Math/Science Elective .....	3
<b>Total Hours.....</b>	<b>15</b>

#### Second Semester

IST 1643 Network Defense and Countermeasures.....	3
IST 2613 Windows Security .....	3
***Career Technical Elective.....	3
LLS 1711 Job Search Skills.....	1
SPT 1113 Public Speaking.....	3
<b>Total Hours.....</b>	<b>13</b>
<b>Semester Hours.....</b>	<b>28</b>
<b>Total Program Hours.....</b>	<b>60</b>

\*Academic electives must be approved by program advisor.

\*\*Security electives: IST 1613 – Computer Forensics, IST 2623 – Linux/Unix Security

\*\*\*Career Technical Elective:

Either of the above OR IST 1254 – Network Admin. Using Linux, IST 2254 – Advanced Network Admin Using Windows Server, IST 2264 – Advanced Network Admin Using Linux, IST 2483 – Web Server