



Computer Networking Technology

Networking involves building computer networks from the ground up. This involves evaluating protocols, operating systems, hardware components, networking devices, and software tools to make a network run efficiently. Critical thinking skills are an essential part of monitoring and troubleshooting a network.

THE PROGRAM: Students entering the Computer Networking Technology major will be given the opportunity to train in a hands-on environment in the field of information technology. The curriculum provides students the necessary exposure to a wide variety of classes and lab environments that will be beneficial to them after completing their Associates of Applied Science degree in Computer Networking Technology. EMCC Golden Triangle Campus's CNT

curriculum is honored to also be a Cisco® Local Academy. Students will take a four semester program as part of the CNT curriculum which will teach them the principles of designing, building, and maintaining networks. Freshmen students take the CompTIA A+ certification and sophomore students take the CompTIA Network+ exam. Upon completion of an Associate of Applied Science in Computer Networking Technology, students should have the necessary skills to also take the CCNA and Linux+ certifications. 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: Computer Networking Technology is a rapidly changing field which requires lifelong learning and the ability to incorporate ever-changing technologies into the students' skill-set.

THE PAY: According to Mississippi Employment Security Commission data, students completing the EMCC Computer Networking Technology program should expect starting salaries ranging from \$31,000 to \$43,000 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 Computer Networking 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

Total Hours.....17

Second Semester

IST 1224 Network Components	4
**Networking Elective	4
**Networking Elective	4
*Social/Behavioral Science Elective	3

Total Hours.....15

Semester Hours.....32

SECOND YEAR

First Semester

IST 2224 Network Planning and Design.....	4
IST 1163 Concepts of Database Design	3
***Career Technical Elective.....	4
ENG 1113 English Composition.....	3
*Math/Science Elective	3

Total Hours.....17

Second Semester

IST 2234 Network Implementation.....	4
****Programming Elective	4
***Career Technical Elective	3
LLS 1711 Job Search Skills	1
SPT 1113 Public Speaking.....	3

Total Hours.....15

Semester Hours.....32

Total Program Hours.....64

*Academic electives must be approved by program advisor.

**Networking electives:

IST 1244, IST 2254 – Network Admin Using Windows Server and Adv. Network Admin. Using Windows Server

IST 1254, IST 2264 – Network Admin Using Linux, Adv. Network Admin Using Linux

***Career Technical Electives: Any of the above OR IST 1613 – Computer Forensics OR IST 2623 – Linux/Unix Security

****Programming Electives: IST 1314 – Visual Basic Programming, IST 1424 – Web Design Application