Associate in Applied Science Degree

# NETWORK SYSTEMS MANAGEMENT

With the widespread use of computers around the world, there is an ongoing need for skilled network administrators. The Associate in Applied Science degree in Network Systems Management prepares students for entry-level positions in a vast number of industries. The Network Systems Management degree will provide skills in network architecture, network design, and LAN/WAN services and support among others. These valuable skills enable graduates to work in IT for small businesses, public and private corporations, and in private practice.

## Admissions Information

## Course Sequence and Progression Requirements

- A minimum grade of "C" or better is required for all CPT and IST prefixed courses for progression and graduation.
- All CPT and IST courses have a 5-year time limit.

## Required Courses

Network Systems Management Requirements

**DEGREE REQUIREMENTS: NETWORK SYSTEMS MANAGEMENT**

| Component | Course Title | Semester Credit Hours |
|---|---|---|
| **GENERAL EDUCATION** | | |
| PHI 110 | Ethics | 3 |
| SPC 205 | Public Speaking | 3 |
| ***Select one of the following Communications courses listed below:*** | | |
| ENG 101 | English Composition I | 3 |
| ENG 155 | Communications I | 3 |
| ***Select one of the following Mathematics courses listed below:*** | | |
| MAT 110 | College Algebra | 3 |
| MAT 155 | Contemporary Mathematics | 3 |
| ***Select one of the following Social/Behavioral Science courses listed below:*** | | |
| PSC 201 | American Government* | 3 |
| PSY 201 | General Psychology | 3 |
| | **CREDITS** | **15** |
| **REQUIRED CORE SUBJECT AREAS** | | |
| IST 201 | Introduction to Networks | 3 |
| IST 202 | Switching, Routing, and Wireless Essentials | 3 |
| IST 165 | Implementing & Administering Active Directory Services | 3 |
| CPT 264 | Systems & Procedures | 3 |
| IST 261 | Network Administration II | 3 |
| IST 203 | Enterprise Networking, Security, and Automation | 3 |
| | **CREDITS** | **18** |
| **OTHER HOURS REQUIRED FOR GRADUATION** | | |

(Continued)

| | | |
|---|---|---|
| CPT 168 | Programming Logic and Design | 3 |
| CPT 209 | Computer Systems Management | 3 |
| CPT 242 | Database | 3 |
| IST 162 | Introduction to Workstation Networking Administration | 3 |
| IST 190 | LINUX Essentials | 3 |
| IST 192 | LINUX Network Applications | 3 |
| IST 196 | Cloud Storage Fundamentals | 3 |
| IST 204 | Buildable Scalable Networks | 3 |
| IST 291 | Network Security I | 3 |
| IST 295 | Voice Over IP | 3 |
| ***and*** | | |
| ***Select two courses from the list below:*** | | |
| CPT 280 | SCWE in Computer Technology "Internship" | 3 |
| IST 290 | Special Topics in Information Sciences | 3 |
| IST 292 | Network Security II | 3 |
| | **CREDITS** | **36** |
| | **TOTAL CREDIT HOURS** | **69** |

*Students transferring to a senior institution are recommended to take PSC 201 at HGTC to satisfy Reach Act requirements. The Reach Act was passed in 2021 by the General Assembly.