Associate in Applied Science Degree
NETWORK SYSTEMS MANAGEMENT

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.

Program 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.

CURRICULUM SEQUENCE

First Semester - Fall	Course Title	Semester Credit Hours
CPT 168	Programming Logic and Design	3
CPT 278	Computer Software Applications	3
IST 201	Cisco Internetworking Concepts	3
MAT 101	Beginning Algebra	3
or		
MAT 110	College Algebra	
	TOTAL	12
Second Semester - Spring		
ENG 101	English Composition I	3
or		
ENG 155	Communications I	
IST 190	LINUX Essentials	3
IST 202	Cisco Router Configuration	3
PHI 110	Ethics	3
SPC 205	Public Speaking	3
	TOTAL	15
Third Semester - Summer		
IST 162	Introduction to Workstation Networking Administration	3
IST 192	LINUX Network Applications	3
IST 203	Advanced Cisco Router Configuration	3
PSC 201*	American Government	3
or		
PSY 201	General Psychology	
	TOTAL	12
Fourth Semester - Fall		
CPT 242	Database	3
IST 165	Implementing and Administering Windows Directory Services	3
IST 204	Cisco Troubleshooting	3

(Continued)

IST 291	Fundamentals of Network Security I	3
IST 196	Cloud Storage Fundamentals	3
	TOTAL	12

Fifth Semester - Spring

CPT 264	Systems and Procedures	3
IST 261	Advanced Network Administration	3
IST 295	Fundamentals of Voice Over IP	3
Choose 2 from below		6
CPT 280	SCWE in Computer Technology "Internship"	
IST 290	Special Topics in Information Sciences	
or		
IST 292	Fundamentals of Network Security II	
	TOTAL	15
	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.