2024-2025 TTC Catalog

Network Systems Management

Associate in Applied Science in Network Systems Management

60 Credit Hours

The Network Systems Management program prepares students for entry-level or higher positions as help desk and PC support, network administrators, network managers, network designers, network engineers, system administrators, routing and switching specialists, Linux/UNIX system administrators or network security specialists. Students have the option of acquiring a set of basic skills in a number of information technology disciplines or focusing in one discipline (for example, Cisco, Cloud, Linux or Microsoft System Administration) to acquire the higher-level skill sets of a specialist in one or more of these concentrations. With five career paths, students can design the degree program which best fits their job requirements or their own goals and ambitions. Most courses help students prepare for individual IT vendor or vendor-neutral certification exams. The Network Systems Management Department is an academy partner with Cisco, Microsoft, VMware, CompTIA, Linux Red Hat, and Amazon Web Services (AWS).

General Education Core Requirements

ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3
MAT 110 College Algebra 3
or
MAT 120 Probability and Statistics 3
or
MAT 155 Contemporary Mathematics 3

REQ HUM	Select from [Humanities](#)	3
REQ SSC	Select from [Behavioral/Social Sciences](#)	3

Total: 15

Major Requirements

CPT 209 Computer Systems Management 3
IST 165 Implementing and Administering Windows Directory Services 3
IST 166 Network Fundamentals 3
IST 190 Linux Essentials 3
IST 198 Cloud Essentials 3
IST 201 Cisco Internetworking Concepts 3
IST 202 Cisco Router Configuration 3

IST 203 Advanced Cisco Router Configuration 3
IST 253 LAN Service and Support 3
IST 260 Network Design 3
IST 293 IT and Data Assurance I 3
IST 298 Advanced Cloud Computing 3
MGT 270 Managerial Communication 3
or
ENG 260 Advanced Technical Communications 3

Total: 39

Electives

Select two courses from the following.

Cisco Network Administration Career Path Electives

IST 206 Cisco Remote Access 3

Linux System Administration Career Path Electives

IST 191 Linux System Administration 3
IST 192 Linux Network Applications 3

Virtualization and Cloud Computing Career Path Electives

CPT 180 Shell Scripting 3
CPT 298 Introduction to Software as a Service (SaaS) 3
IST 253 LAN Service and Support 3
IST 298 Advanced Cloud Computing 3

Work Experience and Internship Career Path Electives

CWE Cooperative Work Experience *
IST 286 Technical Support Internship I 3

*Up to six credit hours

Other Electives

CPT 162 Introduction to Web Page Publishing 3
CPT 172 Microcomputer Database 3
CPT 242 Database 3
IST 206 Cisco Remote Access 3
MKT 130 Customer Service Principles 3

Total: 6

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.