

**Third Semester**

CPT 220	e-Commerce	3
IST 202	Cisco Router Configuration	3
ELE TSM	Select one course from Telecommunications Systems Management Electives	3
ELE TSM	Select one course from Telecommunications Systems Management Electives	3
<b>Total 12</b>		

**Fourth Semester**

IST 293	IT and Data Assurance I	3
REQ HUM	Select one course from Humanities listing on page B-3	3
MAT 110	College Algebra	3
<b>or</b>		
MAT 120	Probability and Statistics	3
<b>or</b>		
MAT 155	Contemporary Mathematics	3
ELE TSM	Select one course from Telecommunications Systems Management Electives	3
ELE TSM	Select one course from Telecommunications Systems Management Electives	3
<b>Total 15</b>		

**Fifth Semester**

ECO 210	Macroeconomics	3
IST 260	Network Design	3
MGT 270	Managerial Communications	3
ELE TSM	Select one course from Telecommunications Systems Management Electives	3
ELE TSM	Select one course from Telecommunications Systems Management Electives	3
<b>Total 15</b>		

**Telecommunications Systems Management Electives**

CPT 282	Information Systems Security	3
CWE 113	Co-operative Work Experience	3
CWE 123	Co-operative Work Experience	3
IST 162	Introduction to Workstation Network Administration	3
IST 163	Internet Server Network Configuration	3
IST 164	Implementing Windows Network Infrastructure Services	3
IST 165	Implementing and Administering Windows Directory Services	3
IST 166	Network Fundamentals	3
IST 191	Linux System Administration	3
IST 192	Linux Network Applications	3

IST 203	Advanced Cisco Router Configuration	3
IST 204	Cisco Troubleshooting	3
IST 205	Cisco Advanced Routing	3
IST 206	Cisco Remote Access	3
IST 207	Cisco Multilayer Switching	3
IST 208	Cisco Internetwork Troubleshooting	3
IST 209	Fundamentals of Wireless LANs	3
IST 250	Network Management	3
IST 253	LAN Service and Support	3
IST 259	Electronic Messaging	3
IST 263	Designing Windows Network Security	3
IST 286	Technical Support Internship I	3
IST 287	Technical Support Internship II	3
IST 291	Fundamentals of Network Security I	3
IST 292	Fundamentals of Network Security II	3
IST 294	IT and Data Assurance II	3
MKT 135	Customer Service Techniques	3

## A+/Network+ Technician

**Certificate in Applied Science**

**Credit Requirements: 24 Semester Credit Hours**

This program teaches students to properly install, configure, upgrade, troubleshoot and repair microcomputer hardware. Students also learn basic installation and troubleshooting knowledge of DOS/Windows. Basic knowledge of networking technology and practices is covered. This program helps prepare students for the Comp TIA Security+, A+, Network+ and Linux+ certification exams. Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

**Recommended Sequence of Courses**

**First Semester**

CPT 102	Basic Computer Concepts	3
IST 220	Data Communications	3
<b>Total 6</b>		

**Second Semester**

CPT 209	Computer Systems Management	3
CPT 210	Computer Resource Management	3
IST 166	Network Fundamentals	3
<b>Total 9</b>		

**Third Semester**

IST 161	Introduction to Network Administration	3
IST 190	Linux Essentials	3
IST 293	IT and Data Assurance I	3
<b>Total 9</b>		