

## Business Technology

### Third Semester – Summer

BUS 220	Business Ethics	3
LOG 125	Transportation and Logistics	3
MGT 255	Organizational Behavior	3
MMT 135	Shipping Operations	3

**Total 12**

### Fourth Semester – Fall

BAF 101	Personal Finance	3
MGT 201	Human Resource Management	3
MKT 101	Marketing	3
TRL 105	Warehousing	3
TRL 107	Commercial Motor Carrier	3

**Total 15**

### Fifth Semester – Spring

BUS 121	Business Law I	3
CPT 282	Information Systems Security	3
MGT 270	Managerial Communication	3
TRL 106	Export/Import	3
ELE BMT	Select one course from Business/ Management Electives on page B-64	3

**Total 15**

## Business/Management Electives

ACC 102	Accounting Principles II	3
CPT 172	Microcomputer Database	3
CPT 174	Microcomputer Spreadsheets	3
CPT 179	Microcomputer Word	3
CWE	Cooperative Work Experience	3
CHN 101	Elementary Chinese I	4
CHN 102	Elementary Chinese II	4
FRE 101	Elementary French I	4
FRE 102	Elementary French II	4
GER101	Elementary German I	4
GER102	Elementary German II	4
IDS 201	Leadership Development	3
SPA 101	Elementary Spanish I	4
SPA 102	Elementary Spanish II	4
	Behavioral/Social Sciences Elective on page B-3	3
	Humanities Elective on page B-3	3
	Natural Sciences Elective on page B-4	4

All courses from the following prefixes that are not required in the career path:

BAF, BUS, IMG, LOG, MGT, MKT, MMT, QAT, TRL

## Telecommunications Systems Management

### Associate in Applied Science

#### Credit Requirements: 72 Semester Credit Hours

The Telecommunications 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, routing and switching) to acquire the higher-level skill sets of a Cisco Certified Network Professional. With eight department electives, students can design the degree program which best fits their job requirements or their own goals and ambitions. Courses help students prepare for a myriad of IT vendor and vendor-neutral certification exams. TTC is a Cisco Networking Academy for both the Cisco Certified Network Associate and the Cisco Certified Network Professional academic programs. TTC is also an MSDN Academic Alliance partner.

#### Recommended Sequence of Courses

##### First Semester

CPT 102	Basic Computer Concepts	3
CPT 114	Computers and Programming	3
CPT 209	Computer Systems Management	3
ENG 101	English Composition I	3
IST 220	Data Communications	3

**Total 15**

##### Second Semester

CPT 210	Computer Resource Management	3
IST 161	Introduction to Network Administration	3
IST 190	Linux Essentials	3
IST 201	Cisco Internetworking Concepts	3
ELE TSM	Select one course from Telecommunications Systems Management Electives on page B-65	3

**Total 15**

**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>		

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

**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
or		
MAT 120	Probability and Statistics	3
or		
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>		

## 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>		

**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