

Third Semester – Summer

CPT 270	Advanced Microcomputer Applications	3
MGT 240	Management Decision Making	3
		Total 6

Cisco Certified Network Associate

Certificate in Applied Science

Credit Requirements: 18 Semester Credit Hours

This program is delivered by TTC in its role as a Cisco Networking Academy and prepares students for entry-level jobs in companies with TCP/IP or IPX networks. Students learn the fundamentals of networking and internetworking, basic router and switch configuration, and troubleshooting in a diverse learning environment that includes instructor-led, Web-based and hands-on lab settings.

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test. The program qualifies students to pursue a number of industry-standard certifications, including the Cisco Certified Network Associate (CCNA).

Recommended Sequence of Courses

First Semester

CPT 102	Basic Computer Concepts	3
IST 220	Data Communications	3
		Total 6

Second Semester

IST 201	Cisco Internetworking Concepts	3
IST 202	Cisco Router Configuration	3
		Total 6

Third Semester

IST 203	Advanced Cisco Router Configuration	3
IST 204	Cisco Troubleshooting	3
		Total 6

Cisco Certified Network Professional

Certificate in Applied Science

Credit Requirements: 12 Semester Credit Hours

This program is delivered by TTC in its role as a Cisco Networking Academy. It provides students with advanced knowledge of networks. Students

learn to install, configure, and operate LAN, WAN, and dial-access services for organizations with networks from 100 to more than 500 nodes including but not limited to these protocols and services: IP, IGRP, IPX, Async Routing, AppleTalk, Extended Access Lists, IP RIP, Route Redistribution, RIP, Route Summarization, OSPF, VLSM, BGP, Serial, Frame Relay, ISDN, ISL, X.25, DDR, PSTN, PPP, VLANs, Ethernet, Access Lists, 802.10, FDDI, and Transparent and Translational Bridging. Classes prepare students for the four exams required to obtain the Cisco Certified Network Professional credential.

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test. The prerequisite for this program is IST 204 or possession of a valid Cisco Certified Network Associate (CCNA) credential.

Recommended Sequence of Courses

First Semester

IST 205	Cisco Advanced Routing	3
IST 206	Cisco Remote Access	3
		Total 6

Second Semester

IST 207	Cisco Multilayer Switching	3
IST 208	Cisco Internetwork Troubleshooting	3
		Total 6

Computer Game Design

Certificate in Applied Science

Credit Requirements: 24 semester Credit Hours

The Computer Game Design Certificate provides students with the skills to understand and apply computer game design and development concepts. Students are prepared for entry-level employment in game design and related fields. Topics covered include game programming fundamentals, game math and physics, 2D and 3D graphics and animation.

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
CPT 232	C++ Programming I	3
ARV 217	Computer Imagery	3
		Total 9