Contact Us:

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Program Overview

Exciting opportunities are offered in a wide range of occupational areas through an associate degree or certificate in the Computer Technology curricula. There are three concentrations: Programming, Network and Cybersecurity. Graduates of Computer Technology will be prepared for a career in the information technology world.

Courses with a prefix of CPT or IST must be less than 8 years old in order to count toward a certificate, diploma or degree program.

PROGRAM REQUIREMENTS

A.A.S., Major in Computer Technology, Programming Concentration

Computer Technology students will explore many different topics relating to computers. The course study includes computer maintenance, local and wide area networks, as well as popular programming languages.

The Programming concentration in Computer Technology includes elective courses in Visual Basic, C++, Java and database platforms. Students will also gain knowledge in the use of computer operating systems, applications and network maintenance.

The Network coursework focuses on elective courses in administration of both Microsoft and UNIX based operating systems. PC repair and wide area network courses are also examined. Students gain experience in Visual Basic and Internet programming as well as today's popular desktop applications.

The Cybersecurity concentration will provide students with the concepts and skills of the fast growing field of cybersecurity, including security of systems and infrastructure in business and industry. Students will learn how to protect networks and defend information systems from attack.

To complete the student's preparation for entry-level positions, some general studies courses are also required.

GENERAL EDUCATION COURSES

COURSES		CREDIT HOURS
ENG 101	English Composition I	3.0
ENG 102	English Composition II	3.0
MAT 155	Contemporary Mathematics	3.0
	Elective Behavioral Science	3.0
	Elective Humanities/Fine Arts	3.0

SUBTOTAL: 15.0

REQUIRED CORE SUBJECT AREAS

COURSES		CREDIT HOURS
CPT 186	Visual Basic.net I	3.0
CPT 207	Complex Computer Applications	3.0
CPT 242	Database	3.0
CPT 257	Operating Systems	3.0
CPT 264	Systems and Procedures	3.0
CPT 267	Technical Support Concepts	3.0

SUBTOTAL: 18.0

OTHER COURSES REQUIRED FOR GRADUATION

COURSES		CREDIT HOURS
CPT 188	Mobile App Development	3.0
CPT 209	Computer Systems Management	3.0
CPT 232	C++ Programming I	3.0
CPT 236	Introduction to Java Programming	3.0
CPT 237	Advanced Java Programming	3.0
CPT 247	UNIX Operating System	3.0
CPT 282	Information Systems Security	3.0
CPT 286	Visual Basic.net II	3.0
IST 220	Data Communications	3.0
IST 226	Internet Programming	3.0

SUBTOTAL: 30.0
TOTAL CREDIT HOURS: 63.0

A.A.S., Major in Computer Technology, Network Concentration

GENERAL EDUCATION COURSES

COURSES		CREDIT HOURS
ENG 101	English Composition I	3.0
ENG 102	English Composition II	3.0

MAT 155	Contemporary Mathematics	3.0
	Elective Behavioral Science	3.0
	Elective Humanities/Fine Arts	3.0

SUBTOTAL: 15.0

REQUIRED CORE SUBJECT AREAS

COURSES		CREDIT HOURS
CPT 186	Visual Basic.net I	3.0
CPT 207	Complex Computer Applications	3.0
CPT 242	Database	3.0
CPT 257	Operating Systems	3.0
CPT 264	Systems and Procedures	3.0
CPT 267	Technical Support Concepts	3.0

SUBTOTAL: 18.0

OTHER COURSES REQUIRED FOR GRADUATION

COURSES		CREDIT HOURS
CPT 209	Computer Systems Management	3.0
CPT 247	UNIX Operating System	3.0
CPT 282	Information Systems Security	3.0
IST 150	Project Management for IT Professionals	3.0
IST 220	Data Communications	3.0
IST 241	Network Architecture I	3.0
IST 253	LAN Service and Support	3.0
IST 256	LAN Desktop Technologies	3.0
IST 257	LAN Network Server Technology	3.0
IST 270	Client/Server Systems	3.0

SUBTOTAL: 30.0
TOTAL CREDIT HOURS: 63.0

A.A.S., Major in Computer Technology, Cybersecurity Concentration

GENERAL EDUCATION COURSES

COURSES		CREDIT HOURS
ENG 101	English Composition I	3.0
ENG 102	English Composition II	3.0
MAT 155	Contemporary Mathematics	3.0
	Elective Behavioral Science	3.0
	Elective Humanities/Fine Arts	3.0

SUBTOTAL: 15.0

REQUIRED CORE SUBJECT AREAS

COURSES		CREDIT HOURS
CPT 186	Visual Basic.net I	3.0
CPT 207	Complex Computer Applications	3.0
CPT 242	Database	3.0
CPT 257	Operating Systems	3.0
CPT 264	Systems and Procedures	3.0
CPT 267	Technical Support Concepts	3.0

SUBTOTAL: 18.0

OTHER COURSES REQUIRED FOR GRADUATION

COURSES		CREDIT HOURS
CPT 209	Computer Systems Management	3.0
CPT 247	UNIX Operating System	3.0
CPT 282	Information Systems Security	3.0
IST 220	Data Communications	3.0
IST 256	LAN Desktop Technologies	3.0
IST 257	LAN Network Server Technology	3.0
IST 268	Computer Forensics	3.0
IST 269	Digital Forensics	3.0
IST 293	IT and Data Assurance I	3.0
IST 294	IT and Data Assurance II	3.0

SUBTOTAL: 30.0
TOTAL CREDIT HOURS: 63.0

Cybersecurity Certificate

This certificate is designed for computer or network systems professionals that need expertise in security. The program will provide students with the concepts and skills of the fast growing field of cybersecurity, including security of systems and infrastructure in business and industry. Students will learn how to protect networks and defend information systems from attack. It is ideal if you are employed in a computer related field and seeking cybersecurity knowledge. Students who complete this certificate may continue their education by enrolling in the associate degree program in Computer Technology.

REQUIRED COURSE INFORMATION

COURSES		CREDIT HOURS
CPT 247	UNIX Operating System	3.0
CPT 282	Information Systems Security	3.0
IST 220	Data Communications	3.0
IST 256	LAN Desktop Technologies	3.0
IST 257	LAN Network Server Technologies	3.0
IST 268	Computer Forensics	3.0
IST 269	Digital Forensics	3.0
IST 293	IT and Data Assurance I	3.0
IST 294	IT and Data Assurance II	3.0

SUBTOTAL: 27.0
TOTAL CREDIT HOURS: 27.0

Certified IT Professional Certificate

This program is designed to help students develop the skills necessary to properly install, configure, upgrade, troubleshoot and repair computer hardware. Students will also learn Windows Server and UNIX operating systems. This program helps prepare students for the CompTIA A+, Network+, Security+, Linux+, and Microsoft certification exams. Students who complete this certificate may continue their education by enrolling in the associate degree program in Computer Technology.

REQUIRED COURSE INFORMATION

COURSES		CREDIT HOURS
CPT 209	Computer Systems Management	3.0
CPT 247	UNIX Operating System	3.0
CPT 257	Operating Systems	3.0
CPT 282	Information Systems Security	3.0
IST 220	Data Communications	3.0
IST 241	Network Architecture I	3.0
IST 256	LAN Desktop Technologies	3.0
IST 257	LAN Network Server Technologies	3.0

SUBTOTAL: 24.0
TOTAL CREDIT HOURS: 24.0

CompTIA Certificate

The CompTIA certificate prepares students for multiple certification exams. Students who complete the certificate are eligible to continue into the Computer Technology degree program.

REQUIRED COURSE INFORMATION

COURSES		CREDIT HOURS
CPT 209	Computer Systems Management	3.0
CPT 257	Operating Systems	3.0
CPT 282	Information Systems Security	3.0
IST 220	Data Communications	3.0

SUBTOTAL: 12.0
TOTAL CREDIT HOURS: 12.0

PC Technician Certificate

This program is designed to provide students with the knowledge and ability to install, maintain and troubleshoot computers, networks and network equipment. The program takes a hands-on approach using real-world examples. The PC Technician certificate will prepare the student for an entry-level job in computer maintenance and network support. Students will also learn the objectives for several national certifications including A+, Network+ and Microsoft. Students may also further their education by enrolling in Computer Technology, Network concentration.

REQUIRED COURSE INFORMATION

COURSES		CREDIT HOURS
CPT 207	Complex Computer Applications	3.0
CPT 209	Computer Systems Management	3.0
CPT 242	Database	3.0
CPT 247	UNIX Operating System	3.0
CPT 257	Operating Systems	3.0
CPT 267	Technical Support Concepts	3.0
CPT 282	Information Systems Security	3.0
IST 150	Project Management Essentials for IT Professionals	3.0
IST 220	Data Communications	3.0
IST 256	LAN Desktop Technologies	3.0

SUBTOTAL: 30.0
TOTAL CREDIT HOURS: 30.0

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