

## Program: Information Technology Specialist

Information technology specialists are an integral part of nearly every industry in today's technology-dominated workplace. Students in this program prepare for careers that focus on PC and network support with emphasis on both practical experience and certification preparation. Possible careers include IT support technician, desktop support specialist, or network administrator. Students are encouraged to spend additional hours of study to obtain Microsoft, Cisco, and CompTIA A+, certifications. Possible certifications students can obtain include CompTIA A+, Security+, Microsoft MTA, MCSA, MCSE, Cisco CCENT, or CCNA

For program costs and fees refer to the catalog TUITION AND FEES PAGE.

### Program Learning Outcomes

<b>1</b>	Demonstrate efficient application of core productivity software to solve business problems and increase efficiency as applied in industry.
<b>2</b>	Perform effective procedures to install, diagnose, configure, support and troubleshoot computer-based hardware and mobile devices to industry standard
<b>3</b>	Develop configuration solutions for technical issues with computers, laptops, mobile devices, networks while balancing business needs to industry standard.
<b>4</b>	Configure connectivity for computers, networks, and mobile systems while applying security principles, system and network vulnerabilities, and common mitigation practices to industry standard
<b>5</b>	Identify network infrastructure, subnetting, troubleshooting procedures configuring network devices to industry standard
<b>6</b>	Develop strategies for network defense using firewalls, routers, switches, antivirus, and anti-spyware tools to industry standard
<b>7</b>	Perform termination and testing of network cabling to industry standard.
<b>8</b>	Identify categories of virtualization products, perform common management tasks and support virtual desktop infrastructure to industry standard
<b>9</b>	Demonstrate concepts related to identities, security measures and access management using computer, network or cloud services to industry standard
<b>10</b>	Perform analysis following established procedures for testing, maintenance, and implementation of devices and services applying effective end-user support as practiced in industry to industry standard
<b>11</b>	Articulate effective communication, make decisions, and define work ethics and its application to employment in industry
<b>12</b>	Prepare for and successfully complete industry certification.

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Degree	Quarter	Course ID	Title	Prerequisites	Credits	
<b>INFORMATION TECHNOLOGY SPECIALIST AAS (105)</b>	1	Required Courses	<b>CNST201</b>	Cisco Network Fundamentals		5
		<b>INFO101</b>	Computer Application Essentials		5	
		<b>INFO104</b>	A+ Essentials		5	
		<b>INFO121</b>	Virtualization		5	
	Electives	<del><b>ECS201</b></del>	<del>Telecommunications Network Cabling System</del>		5	
	2	Required Courses	<b>CNST202</b>	Cisco Routing Protocols and Concepts		5
		<b>INFO105</b>	A+ Practical		5	
		<b>INFO120</b>	Client Operating System		5	
		<b>INFO123</b>	Cloud Fundamentals		5	
	Electives	<b>ECS202</b>	Fiber Optics		5	
	3	Required Courses	<b>CNST220</b>	Cloud Services		5
		<b>INFO205</b>	Security I		5	
	Electives	<del><b>CNST212</b></del>	<del>Cisco LAN Switching and Wireless</del>		5	
	4	Required Courses	<b>CNST218</b>	Server I		5
		<b>INFO206</b>	Security II	INFO205	5	
		Electives	<del><b>CNST213</b></del>	<del>Cisco - Accessing the WAN</del>		5
	5	Required Courses	<b>CNST205</b>	Fundamentals of Linux		5
		<b>CNST207</b>	Server II	CNST218	5	
		Electives	<del><b>CNST214</b></del>	<del>Cyber Security</del>		5
	6	Required Courses	<b>CNST209</b>	Server III	CNST207, CNST218	5
<b>INFO122</b>		User Support Fundamentals	INFO104, INFO105	5		
Electives	<del><b>ECS249</b></del>	<del>Job Search and Preparation</del>		3		
(10 credits)	Electives	<b>CNST212</b>	Cisco LAN Switching and Wireless		5	
	<b>CNST213</b>	Cisco - Accessing the WAN		5		
	<b>CNST214</b>	Cyber Security		5		
	<b>INFO292</b>	Independent Projects		5		
	<b>INFO296</b>	Work-Based Learning				

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<b>ECS201</b>	Telecommunications Network Cabling System	<b>5</b>
<b>ECS202</b>	Fiber Optics	<b>5</b>
<b>ECS249</b>	Job Search and Preparation	<b>3</b>

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### General Education Requirements

**Note: See a Career Advisor prior to choosing courses that meet general education requirements.**

Degree	Gen Ed Area Credits	Course Options			
AAS	Communications (5 credits required)	ENGL175	PROFESSIONAL WRITING	5	
		ENGL&101	ENGLISH COMPOSITION I	5	
	HUM/SS/NS/O (5 credits required)	BIOL&160	GENERAL BIOLOGY	5	
		BIOL&175	HUMAN BIOLOGY WITH LAB	5	
		BIOL&241	ANATOMY & PHYSIOLOGY I	5	
		BIOL&242	HUMAN A&P II	5	
		BIOL&260	MICROBIOLOGY	5	
		CHEM&121	INTRODUCTION CHEMISTRY	5	
		CHEM&131	Null	5	
		CMST&102	INTRO TO MASS MEDIA	5	
		CMST&152	INTERCULTURAL COMM	5	
		CMST&210	INTERPERSONAL COMMUNICTN	5	
		CMST&220	PUBLIC SPEAKING	5	
		CMST&230	SML GROUP COMMUNICATIONS	5	
		ECON&201	MICROECONOMICS	5	
		ECON&202	MACROECONOMICS	5	
		HIST101	HISTORY-SCIENCE/TECH	5	
		HREL111	COLLEGE/JOB SRCH SUCCESS	5	
		NUTR&101	INTRO TO NUTRITION	5	
		PHYS&221	ENGINEERING PHYS I W/LAB	5	
		PHYS&222	ENGINEER PHYS II W/LAB	5	
		PHYS&223	ENGINEER PHYS III W/LAB	5	
		POLS&101	INTRO TO POL SCIENCE	5	
		PSYC&100	GENERAL PSYCHOLOGY	5	
		PSYC&200	LIFESPAN PSYCHOLOGY	5	
		SOC&101	INTRO TO SOCIOLOGY	5	
		Quantitative (5 credits required)	MATH171	TECHNICAL MATH	5
			MATH172	APPLIED BUSINESS MATH	5
			MATH174	MATH FOR ALLIED HEALTH	5
			MATH&107	MATH IN SOCIETY	5
	MATH&141		PRECALCULUS I	5	
	MATH&142		PRECALCULUS II	5	
	MATH&146		INTRODUCTION TO STATS	5	

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MATH&151	CALCULUS I	5
MATH&153	CALCULUS III	5