



Information Technology (IT)— Network Specialist

Program No: 10-150-2

Associate Degree in Applied Science • Degree Completion Time: Four Terms
In general, an academic year consists of two terms; however, degree completion time may vary based on student scheduling needs and class availability.

2013-2014

Catalog No.	Class Title	Credit(s)	About the Career	Placement Scores
Term 1			<p>About the Career</p> <p>Computers networked together sharing data and resources are powerfully amazing! Today, businesses of all sizes are networking their computers to maximize efficiency and productivity. If creating an overall computer network strategy, having the ability to analyze ideas/processes, installing hardware/software, and troubleshooting problems are skills you would like to put to use in a career, becoming a network specialist is your ticket to success.</p> <p>Careers</p> <ul style="list-style-type: none"> • Network Administrator • Network/PC Analyst • Network Support Specialist • Network Technician • PC Support Specialist <p>Admissions Steps</p> <ul style="list-style-type: none"> • Submit Application and \$30 Processing Fee • Complete an Assessment for Placement (Accuplacer or ACT) • Submit Official Transcripts (High School and Other Colleges) • Meet with Program Advisor • Complete Functional Ability Statement of Understanding Form <p>Program Outcomes</p> <p>You'll learn to:</p> <ul style="list-style-type: none"> • Implement computer networks. • Implement client systems. • Implement server operating systems. • Implement network security components. • Develop technical documentation. • Troubleshoot network systems. <p>Approximate Costs</p> <ul style="list-style-type: none"> • \$132 per credit (resident) • \$198 per credit (out-of-state resident) • Other fees vary by program (books, supplies, materials, tools, uniforms, health-related exams, etc.) <p>Special Note</p> <p>Students are required to have one USB 80 gig hard drive or greater.</p> <p>Functional Abilities</p> <p>Functional abilities are the basic duties that a student must be able to perform with or without reasonable accommodations. At the postsecondary level, students must meet these requirements, and they cannot be modified.</p>	<p>Accuplacer/ACT scores will be used to develop your educational plan. Please contact your program counselor/advisor at 920-693-1109.</p> <p>Divisional Grading Policy</p> <p>All coursework in the Business and Technology Division must be passed at a grade of "C" or better for program graduation.</p>
10105124	Portfolio Introduction	1.00		
10150114	Networking I	3.00		
10154120	Computer Concepts	3.00		
10154122	PC Support 1	3.00		
10801195	Written Communication	3.00		
10804133	Mathematics and Logic	3.00		
	Total	16.00		
Term 2				
10150127	Linux 1	2.00		
10150173	Server Administration 1	3.00		
10150176	Networking 2	3.00		
10154175	PC Support 2	3.00		
10801196	Oral/Interpersonal Communication	3.00		
10809172	Introduction to Diversity Studies OR 10806112 Principles of Sustainability	3.00		
	Total	17.00		
Term 3				
10105128	Personal Branding	2.00		
10150126	Server Scripting	2.00		
10150163	Networking 3	3.00		
10150174	Server Administration 2	3.00		
10150128	Linux 2	2.00		
10154127	Data Assurance	2.00		
10809195	Economics	3.00		
	Total	17.00		
Term 4				
10150165	Networking 4	3.00		
10150169	Network Design and Documentation	2.00		
10150178	Network Applications and Installations	3.00		
10150179	Web Server Administration	2.00		
10154101	Portfolio Assessment-IT	1.00		
10809196	Introduction to Sociology	3.00		
10809198	Introduction to Psychology	3.00		
	Total	17.00		
	Program Total	67.00		
Note:	<p>Program start dates vary; check with your counselor for details.</p> <p>Curriculum and program acceptance requirements are subject to change.</p>			

Transfer agreements are available with the following institutions:

Bellevue University
Capella University
Cardinal Stritch University
Concordia University
Excelsior College
Franklin University

Herzing University
Lakeland College
Marian College
MSOE Rader School of Business
Ottawa University
Silver Lake College

University of Phoenix
Upper Iowa University
UW-Green Bay
UW-Oshkosh
UW-Stout

IMPORTANT: For more information on these agreements, visit gotoltc.edu/transfer.

10105124 Portfolio Introduction

...prepares the student to develop a personal and professional portfolio, to identify self-awareness through various self-assessments and apply these results to the workplace and other environments, to write goal statements and understand their value, to develop an individual history of events and achievements, and to identify significant learning experiences throughout the student's life.

10105128 Personal Branding

...focuses on the importance of developing a strong brand identify for yourself as a professional. As a prospective employee, you are constantly selling yourself from how you talk, walk, dress, your facial expressions, and your body language; people are always forming impressions of you. In this course, you will develop a professional resume, cover letter, practice interview skills, and learn the role of social media in career development.

PREREQUISITE: 10105124 Portfolio Introduction or 10201116 Graphic and Web Portfolio

10105114 Networking 1

...is a lecture/hands-on course designed to introduce students to network fundamentals. Topics covered include: OSI Reference Model; LAN and WAN topologies; cabling systems; access methods; protocols; Internet working devices (e.g. hubs, bridges, routers, switches, etc.); and basic network design.

10105126 Server Scripting

...is a lecture/hands-on course designed to introduce students to server scripting; print management; advanced network management; and troubleshooting tools.

PREREQUISITE: 10105173 Server Administration 1

10105127 Linux 1

...provides the learner with the skills to plan for and install the Linux operating system; use Linux commands at a command line interface; use Linux graphical environments; employ Linux system standards; use the Linux system; configure the X window system; customize the shell environment; administer a Linux system; manage system resources; back up system data; and create scripts to automate processes.

PREREQUISITE: 10154120 Computer Concepts

10105128 Linux 2

...expands the learners' ability to work in a Linux-based command line and GUI environment. Learners will develop advanced skills in file sharing, Internet, server configuration, security, writing shell scripts, and network administration tasks.

PREREQUISITE: 10150127 Linux 1

10105163 Networking 3

...introduces the student to switching technology, hardware and software firewalls, and virtual private networks (VPN).

PREREQUISITE: 10150176 Networking 2

10150165 Networking 4

...provides the student with the ability to work with current and emerging network technology.

PREREQUISITE: 10150176 Networking 2

10150169 Network Design and Documentation

...is a lecture/hands-on course designed to introduce students to network design and documentation fundamentals. Topics include: needs analysis, hardware needs and analysis, network layout and design, and documenting a network.

PREREQUISITE: 10150176 Networking 2

10150173 Server Administration 1

...is a lecture/hands-on course designed to teach basic network administration. Topics covered include: network benefits, network administrator responsibilities, log-in security, file system security and design, print management, and user administration for Windows 2000 server.

PREREQUISITE: 10154120 Computer Concepts

10150174 Server Administration 2

...is a lecture/hands-on course designed to teach network server administration and server services. Topics covered include: network administration; user, computer, and fire security and management; server virtualization; and print, em-mail FTP, and web services.

PREREQUISITE: 10150173 Server Administration 1

10150176 Networking 2

...provides the students with networking terminology, protocols, network standards, LAN's, WAN's, TCP/IP addressing, and routing.

PREREQUISITE: 10150114 Networking 1

10150178 Network Applications and Installations

...introduces the student to installing software on a network, including installing network software, assigning correct security rights, and Cisco Call Manager Express.

PREREQUISITE: 10150176 Networking 2

10150179 Web Server Administration

...introduces the student to creating/maintaining web pages, a web server, and an FTP server; working with e-mail; and navigating the Internet.

PREREQUISITE: 10150173 Server Administration 1 OR 10150172 Novell Open Enterprise Server

10154101 Portfolio Assessment-IT

...prepares the student to identify what they have learned throughout the IT program, write career goals, re-examine their resume, research and collect project samples of their achievements, and analyze their achievements within the college core abilities.

PREREQUISITE: 10105124 Portfolio Introduction and 10105128 Career Exploration

10154120 Computer Concepts

...introduces the learner to the basic concepts and terminology of a computer system hardware and software; applied skills include: managing computer data files; protecting against computer viruses; creating simple web pages; producing electronic word documents, spreadsheets and presentations; investigating current employment trends; and examining techniques of systems analysis & design, programming languages and database systems.

10154122 PC Support 1

...is the first course of the two-course A+ series that helps those seeking to become entry-level IT professionals by providing skills and knowledge necessary to perform the following tasks on personal computer hardware and operating systems: installation, PC building, system upgrades, repair, system configuration, troubleshooting, problem diagnosis, and preventative maintenance. The course covers the objectives of the CompTIA A+ exams but is not designed nor intended to be a "test prep" course. Additional resources as well as work experience are required in order to pass the exams.

10154127 Data Assurance

...provides the learner with a fundamental understanding of computer security principles and implementation; technologies used and principles involved in creating a secure computer environment; authentication; types of attacks and malicious code; e-mail, Web applications, remote access, and file and print services; intrusion detection systems, firewalls, and physical security concepts. The student will have a variety of hands-on and case project assignments that reinforce the concepts read in each chapter.

10154175 PC Support 2

...is the second course of the two-course A+ series that helps those seeking to become entry-level IT professionals by providing skills and knowledge necessary to perform the following tasks on personal computer hardware and operating systems: installation, PC building, system upgrades, repair, system configuration, troubleshooting, problem diagnosis, and preventative maintenance. The course covers the objectives of the CompTIA A+ exams but is not designed nor intended to be a "test prep" course. Additional resources as well as work experience are required in order to pass the exams.

PREREQUISITE: 10154122 PC Support 1 or CONDITION: CompTIA A+ Essentials Certification

10801195 Written Communication

...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents.

PREREQUISITE: 10831103 Intro to College Wrtg or CONDITION: Written Comm Prepared Learner (Accuplacer Wrtg min score of 86 or Equivalent) and COREQUISITE: 10838105 Intro Rdg & Study Skills or CONDITION: Reading Accuplacer min score of 74 or equivalent

10801196 Oral/Interpersonal Comm

...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects.

COREQUISITE: 10838105 Intro Reading and Study Skills or CONDITION: Reading accuplcer minimum score of 74 or equivalent

10804133 Math & Logic

...will apply mathematical problem solving techniques. Topics will include symbolic logic, sets, algebra, Boolean algebra, and number bases.

PREREQUISITE: Accuplacer Math minimum score of 79 or Equivalent or 10834109 Pre-Algebra and COREQUISITE: 10838105 Intro Reading and Study Skills or CONDITION: Reading accuplcer minimum score of 74 or equivalent

10809172 Introduction to Diversity Studies

...is a course that draws from several disciplines to reaffirm the basic American values of justice and equality by teaching a basic vocabulary, a history of immigration and conquest, principles of transcultural communication, legal liability and value of aesthetic production to increase the probability of respectful encounters among people. In addition to an analysis of majority/minority relations in a multicultural context, the topics of ageism, sexism, gender differences, sexual orientation, the disabled and the American Disability Act (ADA) are explored. Ethnic relations are studied in global and comparative perspectives.

COREQUISITE: 10838105 Intro Reading and Study Skills or Accuplacer Reading score of 74 or equivalent

10809195 Economics

...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues.

COREQUISITE: 10838105 Intro Reading and Study Skills or Accuplacer Reading score of 74 or equivalent

10809196 Introduction to Sociology

...introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues.

COREQUISITE: 10838105 Intro Reading and Study Skills or Accuplacer Reading score of 74 or equivalent

10809198 Intro to Psychology

...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings.

COREQUISITE: 10838105 Intro Reading and Study Skills or Accuplacer Reading score of 74 or equivalent