Program Number 10-150-2
Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

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.

PROGRAM OUTCOMES

- Implement computer networks.
- Implement client systems.
- Implement server operating systems.
- Implement network security components.
- Develop technical documentation.
- Troubleshoot network systems.

ADMISSIONS STEPS

- Work with Admissions Specialist to:
 - Submit Application and $30 Fee
 - Complete an Assessment for Placement (Accuplacer or ACT)
 - Submit Official Transcripts (High School and Other Colleges)
- Meet with Program Advisor/Counselor to Discuss Program Details

APPROXIMATE COSTS

- $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.) Visit gotoltc.edu/payingforcollege for details.

PLACEMENT SCORES

Accuplacer/ACT scores will be used to develop your educational plan. Contact your program advisor/counselor for details.

SPECIAL NOTE

Students are required to have one USB 80 gig hard drive or greater.

CAREER & EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/transfer.

CONTACT

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Catalog No.	Class Title	Credit(s)
Term 1		
10105124	Portfolio Introduction	1
10150114	Networking I	3
10154120	Computer Concepts	3
10154122	PC Support 1	3
10801195	Written Communication OR 10801136 English Composition 1	3
10804133	Mathematics and Logic	3
		16
Term 2		
10150125	Linux	2
10150173	Server Administration 1	3
10150176	Networking 2	3
10154175	PC Support 2	3
10801196	Oral/Interpersonal Communication	3
10809172	Introduction to Diversity Studies OR 10806112 Principles of Sustainability	3
		17
Term 3		
10105128	Personal Branding	2
10150126	Server Scripting	2
10150163	Networking 3	3
10150174	Server Administration 2	3
10150129	Virtualization	2
10154127	Data Assurance	2
10809195	Economics	3
		17
Term 4		
10150165	Networking 4	3
10150178	Systems Integration	3
10150169	Network Security	2
10150169	Network Design and Documentation	2
10154101	Portfolio Assessment-IT	1
10809196	Introduction to Sociology	3
10809198	Introduction to Psychology	3
		17

TOTAL 67

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.

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.

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 equivalent

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 equivalent

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 equivalent

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 equivalent

LINUX ...is a hands-on course designed to provide the learner with the skills to install the Linux operating system, use its command-line and graphical user interfaces, manage system resources, and create scripts. The course will also introduce the learner to Linux system administration including the installation and administration of users, files, software, networking, and Internet and intranet services.

MATH & LOGIC ...will apply mathematical problem solving techniques. Topics will include symbolic logic, sets, algebra, Boolean algebra, and number bases. PREREQUISITE: 10834109 Pre-Algebra or equivalent and COREQUISITE: 10838105 Intro Reading and Study Skills or equivalent

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

NETWORK SECURITY ...introduces the student to creating/maintaining web pages, a web server, and an FTP server; working with e-mail; and navigating the Internet. PREREQUISITE: 10150163 Networking 3

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.

NETWORKING 2 ...provides the students with networking terminology, protocols, network standards, LAN's, WAN's, TCP/IP addressing, and routing. PREREQUISITE: 10150114 Networking 1

NETWORKING 3 ...introduces the student to switching technology, hardware and software firewalls, and virtual private networks (VPN). PREREQUISITE: 10150176 Networking 2

NETWORKING 4 ...is a hands-on course designed to introduce IT students to the terms and definitions of Analog phone systems and Voice over IP (VoIP) networks. The student will be configuring and maintaining an IP Telephony system, provisioning phones, configuring call features, and establishing voicemail. Cisco Call Manager, Call Manager Express, and Cisco VoIP phones are used to configure and build a converged IP telephony infrastructure. PREREQUISITE: 10150136 Networking 3

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 equivalent

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.

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

PERSONAL BRANDING ...focuses on the importance of developing a strong brand identity 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

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 Personal Branding

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.

SERVER ADMINISTRATION 1 ...is a hands-on course designed to introduce the learner to the installation and configuration of Windows Server servers. The student will learn how to install and configure servers, configure server roles and features, configure Hyper-V, deploy and configure core network services, install and administer Active Directory (AD), and create and manage Group Policy. PREREQUISITE: 10154120 Computer Concepts

SERVER ADMINISTRATION 2 ...is a hands-on course designed to introduce the leaner to administration of Windows Server servers. The student will learn how to deploy, manage, and maintain servers; configure file and print services; configure network services and access; configure a network policy server infrastructure; configure and manage Active Directory; and configure and manage Group Policy. PREREQUISITE: 10150173 Server Administration 1

SERVER SCRIPTING ...is a hands-on course designed to introduce IT students to PowerShell and how it is used for administering Microsoft Networks. Students will develop a sound understanding of administering Window's environments using PowerShell and developing scripts using basic programming logic. PREREQUISITE: 10150173 Server Administration 1

SYSTEMS INTEGRATION ...is a projects-based, hands-on course designed to expand the student's knowledge in student self-directed areas as well as provide the opportunity for the student to apply what they have learned in their other program courses. Server virtualization and VoIP phone systems, including ring/hunt groups, paging, intercom, call routing, time conditions, interactive voice response, trunks, and voicemail are also covered in this course. PREREQUISITE: 10150163 Networking 3

VIRTUALIZATION ...is a hands-on course designed to introduce the learner to the skills needed to install, configure, and manage a highly available and scalable virtual infrastructure. Objectives include: create, configure, migrate, manage, and monitor virtual machines and virtual appliances; manage user access to the virtual infrastructure; and configure and manage virtual network and storage systems. PREREQUISITE: 10154120 Computer Concepts

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 equivalent and COREQUISITE: 10838105 Intro Rdg & Study Skills or equivalent