

**Program Number 10-154-3**  
**Associate Degree in Applied Science • Four Terms**

### ABOUT THE PROGRAM

Computers—can you imagine life without them? So much of what we do, whether at work, at home, or somewhere in between, depends on the use of computer information systems. If you enjoy using various operating systems, learning all kinds of software applications, doing some programming, troubleshooting hardware and software, and helping others learn to use technology and information systems, a career as a computer support specialist may be the perfect fit for your high-tech talents.

### PROGRAM OUTCOMES

- Manage information technology hardware.
- Manage software.
- Support computer networks.
- Provide end user support.
- Solve information technology problems.
- Demonstrate customer service skills as an IT professional.

### 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](http://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](http://gotoltc.edu/transfer).

### CONTACT

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Catalog No.	Class Title	Credit(s)
<b>Term 1</b>		
10105124	Portfolio Introduction	1
10154120	Computer Concepts	3
10154122	PC Support 1	3
10801195	Written Communication OR 10801136 English Composition 1	3
10804133	Mathematics and Logic	3
10809172	Introduction to Diversity Studies OR 10806112 Principles of Sustainability	3
		<b>16</b>
<b>Term 2</b>		
10150114	Networking I	3
10154124	Information Security Principles	2
10154128	Help Desk Fundamentals	2
10154175	PC Support 2	3
10154102	Business Apps Fundamentals	3
10801196	Oral/Interpersonal Communication	3
		<b>16</b>
<b>Term 3</b>		
10105128	Personal Branding	2
10150173	Server Administration 1	3
10150180	Small Office Home Office Networking	3
10154127	Data Assurance	2
10154129	Help Desk Advanced	3
10154150	Financial Systems Support	2
10809196	Introduction to Sociology	3
		<b>18</b>
<b>Term 4</b>		
10154121	DataBase Concepts	2
10154103	Training and Documentation	2
10154101	Portfolio Assessment-IT	1
10154159	Microcomputer Projects	2
10154152	Database Applications	1
10150125	Linux	2
10809195	Economics	3
10809198	Introduction to Psychology	3
		<b>16</b>
		<b>TOTAL 66</b>

*Curriculum and Program Acceptance requirements are subject to change.  
Program start dates vary; check with your advisor/counselor for details.*



**BUSINESS APPS FUNDAMENTALS** ...prepares the learner to evaluate, use, and support common information system applications that an end-user would use in a typical business environment. Both individual productivity tools as well as enterprise tools are examined. The competencies in the course will articulate to other courses in the information technology programs. Applications used will include Open Source Business Suites, Google Apps suite and Market Place applications, Gmail, calendars, surveys, video portals, and more.

**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.

**DATABASE APPLICATIONS** ...is a project-based course in which learners will build and implement a relational database application utilizing the principles of sound database design acquired in the Database Concepts course. Learners will define the functionality's, implement, build and populate the database, document the database project, and demo their project. PREREQUISITE: 10154121 Database Concepts

**DATABASE CONCEPTS** ...prepares the learner to differentiate among the primary DBMS components; determine the difference in data models; use Query By Example and relational algebra; develop SQL statements; apply principles of database integrity, security and normalization; reconstruct poorly designed table structures; develop a relational database design using data requirement analysis and specification methods; and examine additional DBMS functions.

**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

**FINANCIAL SYSTEMS SUPPORT** ...prepares the learner to support a variety of financial software, including spreadsheets, financial management, and accounting/general-ledger formats with emphasis on data entry, report generation, and integration.

**HELP DESK FUNDAMENTALS** ...provides the learner with the knowledge required to become a Help Desk Support technician. Students will learn fundamental Help Desk concepts such as: Help Desk operations, roles and responsibilities, processes and procedures, tools and technologies, individual and team performance measures, and how to provide support as a Help Desk professional.

**HELP DESK-ADVANCED** ...expands the learners' ability to troubleshoot all information technology issues utilizing Help Desk and Asset Management applications. Learners will expand their knowledge of ITIL practices and procedures used to manage an IT operation and its associated infrastructure. Communication, documentation, and teamwork skills are enforced. PREREQUISITE: 10154128 Help Desk Fundamentals

**INFORMATION SECURITY PRINCIPLES** ...introduces the learner to Information Systems Security. Students will review and analyze the control and security concerns in the information systems environment; the security challenges created from the emergence of new technology and the changing internal and external environments; and the effect of legal, regulatory, and current security technology on policy development.

**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

**MICROCOMPUTER PROJECTS** ...provides experience as a member of a computer implementation team involved in converting to a new, automated system. Experiences include applying various microcomputer software and hardware tools to solving advanced business problems and project management.

**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.

**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+ 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+ 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+ 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

**SMALL OFFICE HOME OFFICE NETWORKING** ...provides the learner with a background in networking fundamentals and the skills to design and build a home network for file sharing and internet access, take an in-depth look at wireless technology, secure a wireless network, and understand fundamental computer security principles and implementation.

**TRAINING AND DOCUMENTATION** ...provides the learner with the skills to develop various types of user documentation in hard copy and on-line formats. In addition, the learner will develop oral and written training skills necessary to provide individual and group end-user training.

**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