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.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES
LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

ADMISSION TO DO'S
• Work with Career Coach to:
  - Submit application and $30 fee.
  - Submit official transcripts (high school and other colleges).

PROGRAM TO DO’S
• Work with Academic Advisor to:
  - Complete an assessment for placement (Accuplacer or ACT).
  - Complete Functional Abilities Statement of Understanding form.
  - Meet to plan your first semester schedule, review your entire plan of study, discuss placement assessment results and complete Program To Do’s.

APPROXIMATE COSTS
• $136.50 per credit tuition (WI resident) plus $7.38 per credit student activity fee. $10 per credit online fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID
This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Career Coach about how to apply for aid.

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

CONTACT
LTC Career Coach
920.693.1162 • CareerCoach@gotoltc.edu

Lakeshore Technical College
INFORMATION TECHNOLOGY (IT) • NETWORK SPECIALIST

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

Catalog No.  Class Title  Credit(s)

<table>
<thead>
<tr>
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<tr>
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<td>10154124 Information Security Principles</td>
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<td>10801196 Oral/Interpersonal Communication OR</td>
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<td>10801198 Speech</td>
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<td>10809196 Introduction to Sociology OR 10809122</td>
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TOTAL 60

Curriculum and Program Acceptance requirements are subject to change. Program start dates vary; check with your advisor for details. The tuition and fees are approximate based on 2019-2020 rates and are subject to change prior to the start of the academic year.

The Hire in Higher Education

2019-20
COLLEGE MATHEMATICS...is designed to review and develop fundamental
corcepts of mathematics pertinent to the areas of: 1) arithmetic and algebra; 2)
geometry and trigonometry; and 3) probability and statistics. Special emphasis is
placed on problem solving, critical thinking and logical reasoning, making connections,
and using calculators. PREREQUISITE: 10834109 Pre-Algebra or Math placement
assessment equivalent

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:
10881005 Intro Reading and Study Skills or Reading placement assessment equivalent
OR CONDITION: 610062 Agribusiness/Financial Basic program admissions met

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.
PREREQUISITE: 10154104 Intro to IT

INTRO TO IT...introduces student to IT field to basic concepts and terminology of
a computer systems hardware and software. Operating Systems (including Mac OS),
and Networks; applied skills include: managing computer data files; protecting against
computer viruses; creating simple web pages; producing electronic word documents,
spreadsheets and presentations; examining techniques of systems analysis and
design, programming languages and database systems.

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the
multiple aspects of human behavior. It involves a survey of the theoretical foundations
of human thought and behavior 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. PREREQUISITE: Reading placement
assessment equivalent or COREQUISITE: 10883105 Intro to Reading and Study Skills

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: 10883105 Intro
Reading and Study Skills or Reading placement assessment equivalent

IT NETWORKING CAPSTONE...will integrate many of the technologies and
concepts that the students have learned throughout the Network Specialist program.
The integration projects will include such areas as network client and server administration,
general networking concepts, IP addressing, security, and switch and router configuration.
COREQUISITES: 10150165 Networking 4 and
10150175 Server Administration 3

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,
interface 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.

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 the various methodologies for
defending a network. Learners will develop an in-depth theoretical understanding of
network security principles as well as the tools and configurations available. The learner
will emphasize on the practical application of skills needed to design, implement, and
support a secure Cisco network. 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 student with networking terminology, protocols,
network standards, LANs, WANs, 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 COMMUNICATION...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 Reading placement assessment equivalent

PC SUPPORT...prepares you to be able to install, manage, repair, and troubleshoot
PC hardware and Windows, Linux, and Mac operating systems. You will learn how
to set up a new computer, identify system requirements, install or upgrade operating
systems, manage external devices, troubleshoot common computer problems, and
connect to a small home network.

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: 10154104 Intro
to IT

SERVER ADMINISTRATION 2...is a hands-on course designed to introduce the
learner 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 ADMINISTRATION 3...will introduce you to PowerShell and help you be
effective with it in a production environment. PowerShell is both a scripting language
and an administrative shell that lets you control and automate nearly every aspect
of Windows. PREREQUISITE: 10150173 Server Administration 1

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:
10154104 Introduction to IT

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 Writing placement assessment equivalent and COREQUISITE: 10838105 Intro
Rdg & Study Skills or Reading placement assessment equivalent