



LEARN BY TERM

ASSOCIATE IN APPLIED SCIENCE DEGREE

COMPUTER & INFORMATION TECHNOLOGIES NETWORK ADMINISTRATION TRACK

Program Description

This program includes tracks in Applications, Information Security, Internet Technologies, Network Administration, Network Technologies, and Programming, with a core of courses common to all. The core includes a general education component essential to a collegiate education and a technical component giving students an introduction to information systems, computer applications, program development, system maintenance, networking, security, Internet technologies, database design, and collaborative system development. In addition to core courses, students take specialty courses for their selected track. The Network Administration track provides the concepts and skills needed to design, set-up, maintain and expand network and telecommunications systems. The curriculum provides specific training in Cisco, and/or Microsoft network systems. Upon completion of the track, the graduate will be qualified to take industry designed and recognized certification examinations. Employment opportunities include entry-level positions in installation and administration of local and wide area networks in medium to large businesses and organizations, and computer network administration positions in small businesses.

List of Colleges

Bluegrass Community and Technical College, Bowling Green Technical College, Gateway Community and Technical College, Hazard Community and Technical College, Henderson Community College, Hopkinsville Community College, Madisonville Community College, Maysville Community and Technical College, Owensboro Community and Technical College and **West Kentucky Community and Technical College** offer this degree .

One of these colleges must be designated as your Home College. Even though the classes will be delivered by different KCTCS colleges, only the Home College will admit you and take care of all of your student service needs including advising, library services, billing, financial aid, etc.

Getting Started

Students may register for KCTCS online classes offered system wide directly at any KCTCS college. Individuals may also complete a “course inquiry” submit form through www.kyvc.org . KYVC course inquiries are submitted directly to the KCTCS Home College identified by the student. The student’s chosen Home College processes the course inquiry either through formal admission procedures or class enrollment. Additional information about KCTCS admission requirements and college contacts may be accessed at <http://www.kctcs.edu/en/Students/LearnByTerm.aspx>.

CIT – Network Administration Track Competencies

Upon completion of this program, the graduate can:

1. Set up and manage user accounts including e-mail and Internet capability.
2. Install and maintain vendor-specific network components including servers, workstations, printers and communication infrastructure.
3. Analyze business information needs and design vendor-specific network solutions to enhance productivity and competitiveness.
4. Explain how the OSI (Open Systems Interconnection) model relates to development and troubleshooting of network communications.
5. Implement TCP/IP (Transmission Control Protocol/Internet Protocol) addressing and subnetting schemes.
6. Design communications solutions in an enterprise environment.
7. Implement a disaster recovery protection plan.

Course Requirements

Here is a listing of the classes involved in this degree. There may be additional courses that meet these requirements. Please check the current course catalog and online class schedule for additional information and offerings. The entire Associate in Applied Science degree may be completed online; however, some faculty may require proctored exams. Approved proctored sites are listed at <http://www.kctcs.edu/en/Students/LearnByTerm.aspx> under student services.

CIT – Network Administration Track

<u>Course Prefix</u>	<u>Course Number</u>	<u>Program Title: Computer & Information Technologies (AAS) Course Title</u>	<u>Credit Hours</u>
General Education			
ENG	101	Writing I	3
MAT	150	College Algebra	3
		Social/Behavioral Science Course	3
		Heritage/Humanities Course	3
		Natural Sciences Course	3
		Subtotal	15
General Education for Computer Science Track			
ENG	101	Writing I	3
MAT	174	Calculus	4
		Social/Behavioral Science Course	3
		Heritage/Humanities Course	3
PHY	231	General University Physics	4
PHY	241	General University Physics Laboratory	1
		Subtotal	18
Core Requirements			
CIT	105	Introduction to Computers	3
CIT	111	Computer Hardware and Software	4
CIT	120	Computational Thinking	3
CIT	150	Internet Technologies	3

CIT	170	Database Design Fundamentals	3
CIT	180	Security Fundamentals	3
		Level I Networking Course	4
		Approved Level I Programming Language Course	3
CIT	291	CIT Capstone	3
		Subtotal	29
	Network Administration Track		
		Network Administration Specialization Sequence	12
		Approved CIT Technical Courses	8-12
		Subtotal	20-24
		Total	64-68

Helpful links:

APPLICATION: http://www.kctcs.edu/students/admissions/apply_online.aspx

CALENDAR: <http://www.kctcs.edu/Students/LearnByTerm/Calendar.aspx>

CONTACTS: <http://www.kctcs.edu/Students/LearnByTerm/Learn By Term Advisors/College Contacts.aspx>

COURSES: http://www.kctcs.edu/Students/LearnByTerm/Online_Courses.aspx

FINANCIAL AID: http://www.kctcs.edu/Students/Costs_and_Financial_Aid.aspx

GETTING STARTED: http://www.kctcs.edu/Students/LearnByTerm/Getting_Started.aspx

STUDENT TUTORIAL: <http://www.kctcs.edu/Students/LearnByTerm/Tutorials.aspx>

KCTCS COURSES AVAILABLE AT KYVC: <http://kyvc.org/>

Dates of Actions:

Revisions: December 2008, October 2010, August 2011, December 2011, April 2012

