ASSOCIATE IN APPLIED SCIENCE DEGREE

**COMPUTER & INFORMATION TECHNOLOGIES
APPLICATIONS 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 Applications track emphasizes several aspects of application software. It includes such productivity applications as: word processing, spreadsheets, database management, presentation, geographic information systems, website development/maintenance, and help desk tracking systems. Completion of this track will prepare students to work with computer-based systems in business and industry.

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 - Applications Track Competencies

Upon completion of this program, the graduate can:

1. Evaluate, select, customize, and maintain software and hardware
2. Demonstrate proficiency in the use of application software
3. Demonstrate a fundamental knowledge of business principles and practices
4. Business Software Specialist
   a. Demonstrate proficiency in the use of advanced application tools
   b. Assist others in the use of computer systems and software, including face-to-face professional communication and the development of training material
   c. Demonstrate an understanding of designing, querying, and updating a database using SQL
5. Computer Support
   a. Demonstrate proficiency in the use of advanced application tools
   b. Assist others in the use of computer systems and software, , including face-to-face professional communication and the development of training material
   c. Demonstrate proficiency in the use of Help Desk tools, technology and techniques
   d. Demonstrate a methodical approach to the problem-solving process
6. Geographic Information Systems
   a. Understand basic and advanced concepts relating to Geographic Information Systems
   b. Use current Geographic Information Systems software to analyze maps
   c. Use database programming to alter and enhance new and existing databases
7. Software Support
   a. Demonstrate proficiency in the use of advanced application tools
   b. Assist others in the use of computer systems and software, , including face-to-face professional communication and the development of training material

    c. Use database programming to alter and enhance new and existing databases

    d. Use writing and research skills to understand technical manuals and help files.

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 - Applications Track

Course Prefix	Course Number	Program Title: Computer & Information Technologies (AAS) Course Title	Credit Hours
		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**
		Applications Track	
CIT	130	Productivity Software	3
		Approved Business or Management Course	3
		Approved CIT Technical Course	3
		Completion of Applications Track Course Sequences in Business Software Specialist or Computer Support or Geographic Information Systems or Software Support	12
		Track Subtotal	**21**
		Total	**65**

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