

Information Technology Program
Certificates in Information Technology



These Information Technology (IT) programs are designed for persons currently in the workforce who desire specific training and education in the various industries. Workforce certificate programs assume that students enter the program already possessing math and writing skills necessary for the program's course-work. Students entering a workforce certificate program will take a placement test, and may be required to take developmental course-work in these areas if indicated by the placement tests.

Workforce certificates are designed for students who desire to upgrade job skills, but do not wish to pursue a degree. At the same time, should a student decide to pursue a degree later, all of the courses in the certificate programs apply towards an Associate in Applied Science degree in Information Technology. These programs provide recognition for students who complete a selection of classes in various specialized areas.

A+ Certificate – 10 credit hours
 Academic Plan Code 1101013049

- ET 107 *Computer Applications for Technicians* **OR**
 CIS 130 *Microcomputer Applications*
- ET 232 *Software Maintenance* **OR**
 CIS 110 *Operating Systems Concepts*
- ET 234 *Hardware Maintenance*

Information Technology Fundamentals – 24 to 27 credit hours
 Academic Plan Code 110103039

- CIS 120 *Program Design and Development*
- ET 107 *Computer Applications for Technicians* **OR**
 CIS 130 *Microcomputer Applications*
- ET 232 *Software Maintenance* **OR**
 CIS 110 *Operating Systems Concepts*
- ET 234 *Hardware Maintenance*
- NIS 160 *Networking Core Technologies* **OR**
 IT 120 *Cisco Internetworking I*
- IT 170 *Introduction to Database Design*
- IT 132 *Web Page Development* **OR**
 IT 130 *Web Site Design and Production*
- Beginning Level Programming Language

E-Commerce – 26-28 credit hours
 Academic Plan Code 1101013129

- BA 160 *Introduction to Business* **OR**
 B&E 100 *Introduction to Business and Economics*
- BA 282 *Principles of Marketing*
- ACC 201 *Financial Accounting I*
- CIS 151/BA 151 *Introduction to Electronic Commerce*
- IT 130 *Web Graphics and Multimedia*
- IT 132 *Web Page Development*
- IT 230 *Advanced Web Page Design*
- IT 235 *Data-Driven Web Design*
- IT 291 *E-Commerce Practicum: Site Implementation*

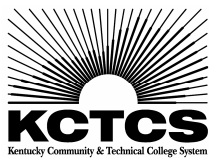
Computer Programming – 30 credit hours
 Academic Plan Code 1101013139

- CIS 220 *Systems Analysis and Design*
- ACC 201 *Financial Accounting I*
- CIS 120 *Program Design and Development*
- Beginning Level Programming Language
- Management Course
- Programming Languages (12 credit hours - must include at least 6 credit hours above the beginning level)
- CIS 280 *Internship* **OR**
 COE 199 *Cooperative Education* (minimum 3 credit hours)

Beginning Level Programming Language Courses
 CIS 143 COBOL Programming
 CIS 148 Visual Basic I
 CIS 149 Java Programming I
 CIS 155 C/C++ Programming I
 CS 115 Introduction to Computer Programming
 IT 147 SQL Programming (cannot fulfill technical core requirement)
 NIS 150 Introduction to Perl Scripting
 NIS 152 Javascript
 Other courses approved by program coordinator

Intermediate Level Programming Language Courses
 CIS 232 Programming for Windows Environment
 CIS 243 COBOL Programming
 CIS 252 C/C++ Programming II
 CIS 262 C/C++ Programming III
 CIS 248 Visual Basic II: Desktop Applications
 CIS 249 Java Programming II
 CIS 250 Java Game Development I
 CS 215 Introduction to Program Design, Abstraction, and Problem Solving
 Other courses approved by program coordinator

Management Courses
 BA 200 – Small Business Management
 BA 274 – Human Resource Management
 BA 287 – Supervisory Management
 BA 288 – Personal and Organizational Leadership
 MFG 256 – Production Management
 OST 275 – Office Management
 QMS 101 – Introduction to Quality Systems
 QMS 102 – Customer Service Improvement Skills



For additional information contact:
Prof. Bruce Jost—IT Program Coordinator
 (502) 213-7264 Bruce.Jost@kctcs.edu
www.jefferson.kctcs.edu