

Information Technology Program Certificates in Computer Programming



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.

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)

Game Programming – 28 credit hours

Academic Plan Code 1101013249

- CIS 120 *Program Design and Development*
- VCC 166 *Digital Imaging*
- CIS 155 *C/C++ Programming I*
- CIS 149 *Java Programming I*
- CIS 250 *Java Game Development I*
- CIS 260 *Java Game Development II*
- CIS 255 *C++ Game Development I*
- CIS 265 *C++ Game Development II*

Beginning Level Programming Language Courses

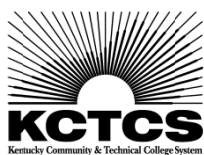
- CIS 143 COBOL Programming
- CIS 148 Visual Basic I
- CIS 149 Java Programming I
- CIS 155 C/C++ Programming I
- CS 115 Introduction to Computer Programming
- IT 147 SQL Programming (cannot fulfill technical core requirement)
- NIS 150 Introduction to Perl Scripting
- NIS 152 Javascript
- Other courses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

Intermediate Level Programming Language Courses

- CIS 232 Programming for Windows Environment
- CIS 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
- CIS 255 C++ Game Development I
- 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
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